EXPANDED SITE INSPECTION AND REMOVAL ASSESSMENT REPORT

ST. CROIX ALUMINA (RENAISSANCE PARK) SITE

ST. CROIX, U.S. VIRGIN ISLANDS

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1 Introduction

Under the Authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the U.S. Environmental Protection Agency (EPA) Region 2 Emergency and Remedial Response Division (ERRD) and Weston Solutions, Inc. (WESTON®) have completed an investigation of the St. Croix Alumina (Renaissance Park) site ("the Site") in St. Croix, U.S. Virgin Islands (USVI). The Site is listed in the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) under EPA ID No. VIN000206465. It is a former alumina refinery where bauxite ore processing residues, including red mud and caustic wastewaters, were deposited in on-site disposal areas. The investigation was a combined effort to complete an Expanded Site Inspection (ESI) under the Region V Superfund Technical Assessment and Response Team III (START III) contract and a Removal Assessment (RA) with radiological measurements under the Removal Support Team 2 (RST 2) contract.

The EPA team completed a sampling and screening effort at the Site from September 12-21, 2011. Sample collection efforts and procedures were combined to accommodate the data requirements of both the EPA Remedial and Removal programs. EPA investigated source areas and migration pathways, including ground water contamination, overland flow of red mud from source areas into downslope surface impoundments and other water bodies, and radioactivity levels in source and receptor areas. Waste samples were collected to characterize sources, and background soil samples were collected as reference for comparison. Surface water and sediment samples were collected to evaluate the impact of waste sources to the on-site and off-site overland flow pathway. Ground water samples were collected from existing on-site monitoring wells to characterize ground water quality in specific areas of the Site and evaluate the impact to ground water. Source areas, sampling locations, and residential areas to the north (Bethlehem Village/Profit Hills [a.k.a. Harvey] and Estate Profit [a.k.a. Matthews Charles]) were screened with radiation detection monitors to evaluate radioactivity and potential exposures.

1.1 Site Location

The Site is located within the South Shore Industrial Complex along the south-central coast of St. Croix. The subject property, which consists of several parcels and has a total surface area of approximately 1,250 acres [SCSE, 2002], is currently owned by St. Croix Renaissance Group, LLLP (SCRG). The property is zoned for industrial use and is bordered by the HOVENSA oil refinery on the east; USVI government property (Container Port and Molasses Pier) on the southeast; the Caribbean Sea on the south; a municipal landfill, wastewater treatment plant, racetrack, and Henry E. Rohlsen Airport on the west; and the Bethlehem Village/Profit Hills (a.k.a. Harvey) and Estate Profit (a.k.a. Matthews Charles) residential neighborhoods across a four-lane highway on the north. A Site Location Map and Site Vicinity Map are presented in Figures 1 and 2, respectively.

1.2 Site Description

The Site is a former refinery where bauxite ore was processed for alumina extraction, and residues from the process were deposited on site. The alumina refinery was constructed in the mid-1960s, at which time the on-site ship channel (Alucroix Channel, a.k.a. Krause Lagoon Channel) was dredged and Krause Lagoon was filled. Alumina refining operations began in 1968. The former refinery consisted of administrative offices and other buildings; material storage structures (silos, tanks, and shed); grinding operations; digestion, thickening, filtration, precipitation, and calcination operations; coal- and oil-fired boilers; water desalination units; warehouses; laboratories; maintenance facilities; storm water collection and cooling ponds; bauxite residue (i.e., red mud) disposal areas; recreational areas; and a dock that provides access to the ship channel.

The refinery operated from 1968 through December 2000, with some intervening idle years. SCRG has since begun redevelopment of the Site, including the removal of former refinery tanks and equipment. Currently the Site consists of the dock and ship channel, coal-fired power plant, coal storage area, conveyors, steam-turbine building, desalination units, ethanol dehydration plant (presently inactive), machine shop, maintenance and administration buildings, settling and cooling ponds, and former disposal areas. The former bauxite storage shed also remains for possible future use. In addition, the Diageo rum distillery in the northern portion of the property was constructed in 2009-2010 and began operating in November 2010. Molasses tanks for the distillery are installed in the former location of refinery tanks. Figure 3 shows the Site Layout including major features.

1.3 Site History

Historically, portions of the Site were used for sugar cane production, as evidenced by pre-1900 ruins in the western and northeastern portions of the property, and the subject property had various owners prior to construction of the alumina refinery. In 1937, the property was transferred from West Indian Sugar Factory, Inc. to private ownership. The U.S government took over the property in 1942, and subsequently transferred it to Municipality of St. Croix in 1949. Harvey Aluminum, Inc. (HAI) purchased the property from Government of the Virgin Islands in 1962 and constructed the refinery in the mid-1960s.

Martin Marietta Alumina (MMA) purchased HAI in 1968, the year alumina refining operations began, and continued alumina production at the Site until 1985. Refining operations were discontinued from 1985 to 1989. Virgin Islands Aluminum Company (VIALCO) purchased the property from MMA in 1989, and resumed refining operations from 1989 until 1995. St. Croix Alumina, LLC (SCA), a subsidiary of Aluminum Company of America (ALCOA), purchased the property from VIALCO in 1995, and refining operations were suspended from 1995 to 1998. ALCOA resumed refining operations in 1998, which continued through December 2000. Administrative and maintenance staff for ALCOA remained at the facility until 2002. SCRG

purchased the property from ALCOA in 2002 and initiated efforts to convert it to a mixed use industrial/commercial site.

1.4 Description of Operations and Waste Generation

The former refinery at the Site extracted alumina (Al_2O_3) from bauxite via the Bayer process, which involved crushing and grinding of the ore; dissolution of alumina with caustic soda at high temperatures and pressures; separation and on-site disposal of undigested solid residues (i.e., red mud) from the supernatant; precipitation as alumina hydrate; and washing and calcination of the hydrate to form crystalline alumina. Raw materials used at the facility included bauxite ore, caustic soda, phosphoric acid, sulfuric acid, lime, flocculants, biocides, calcium fluoride, and coal. Bauxite is a naturally occurring, heterogeneous material composed primarily of one or more aluminum hydroxide minerals (principally gibbsite, boehmite, and diaspore) plus various mixtures of silica (SiO_2), iron oxide (Fe_2O_3), titania (TiO_2), aluminosilicates (clay, etc.), and other impurities in trace amounts [USGS, 2001].

The principal waste material generated by bauxite processing at the Site was red mud, which consists primarily of undigested metal oxides that precipitate and settle out of the process solution. The lower-volume, coarser fraction of the residue is referred to as red sand. After separation and removal of excess water, the red mud was mixed with seawater in an attempt to neutralize remaining caustic solution and form less viscous slurry for conveyance to on-site disposal areas [G&M, 1995]. Red mud can contain elevated levels of metals, and the pH of red mud characteristically ranges from 10 to 12 due to the use of caustic soda during the extraction process. Red mud is also known to contain technologically enhanced naturally occurring radioactive material (TENORM), including thorium and uranium. TENORM is naturally occurring radioactive material (NORM) that has been processed in such a manner that its concentration has increased. In the case of the Site, the use of sodium hydroxide to dissolve aluminum oxide from the ore caused lower solubility compounds, including thorium and uranium, to concentrate in the red mud.

From the onset of operations at the Site in 1968 until the early 1970s, the red mud was deposited in the “old red mud ponds”, designated herein as Red Mud Disposal Area B (RMB). This area is located in the center portion of the Site, south of the former refinery (see Figure 3). RMB, which was built on top of a mangrove swamp, covers approximately 81 acres and consisted of seven disposal cells surrounded by perimeter dikes built of carbonate material. The red mud deposited in RMB was approximately 30 percent solids and 70 percent liquids, with the liquids being a mixture of caustic soda and seawater. Excess caustic liquid drained to a dewatering pond in the southeastern part of the source area for recycling and evaporation (this pond was subsequently used for ash disposal, as described below). Based on a review of plant records, an estimated total of 1,229,149 metric tons of red mud were produced at the facility from 1968 to 1972; that waste quantity is attributed to RMB since it was the active waste disposal unit during that timeframe [IST, 2010b]. RMB has since been partially covered with top soil and a limestone capping layer

(i.e., caliche), and some of it has revegetated, but red mud deposits remain exposed throughout the area.

Beginning in the early 1970s, red mud was placed into the “new red mud ponds”, designated herein as Red Mud Disposal Area A (RMA), which covers about 78 acres near the northwest corner of the Site (see Figure 3). A graded toe road that defines the southern limits of RMA forms the crest of the original containment dike constructed prior to disposal of red mud within the area. Waste deposition in RMA began in approximately 1972 after a modification in the separation process enabled the red mud to be pumped out at a greater percent solids concentration (approximately 50 percent). RMA was subdivided into seven cells of diked red mud, some of which reached elevations in excess of 100 feet above mean sea level (MSL) [BCI, 1993]. Red mud was deposited in RMA using a process called “dry stacking”, whereby red mud slurry was pumped into the northern end of each cell and allowed to flow southward by gravity and form a natural slope of 2 to 5 percent. After a drying period of about six months, the residue was bulldozed and compacted. In 1977, the composition of the red mud slurry being deposited in RMA was reported to be approximately 55 percent solids [D&M, 1977]. After 1983, the slurry also included fly ash from the coal-fired boiler. Based on a review of plant records, an estimated total of 4,613,449 metric tons of red mud were produced at the facility from 1973 to 2000; that waste quantity is attributed to RMA since it was the active waste disposal unit at the beginning of 1973 [IST, 2010b]. In addition, approximately 110,000 metric tons of fly ash were placed into RMA. Boreholes completed in 2006 indicated red mud thicknesses of 28 to 60 feet throughout RMA.

Red mud in both on-site disposal areas has been shown to maintain high pH levels and contain elevated levels of arsenic, chromium, mercury, selenium, and vanadium. A 1993 analysis of red mud from both on-site disposal areas indicated the presence of thorium and uranium, however, radioisotope analysis was not conducted [Wagh, 1993].

Other wastes were generated and deposited at the Site as a result of power production. Beginning in 1983, fly ash from the coal-fired boiler was mixed with red mud prior to disposal in RMA, as described above. The bottom ash from the coal-fired boiler was deposited in the former RMB dewatering pond, designated herein as the Ash Disposal Pond (ADP). ADP is located in the approximate center of the subject property and is surrounded on three sides by RMB, as shown in Figure 3. Laboratory analysis of waste samples from ADP has indicated the presence of arsenic, mercury, and selenium.

While the alumina refinery was operational, bauxite ore was stored on site in the large, open air and roofed shed designated herein as the Former Bauxite Storage Area (FBS). FBS is located within the former refinery operational area in the north-central portion of the subject property and west of Alucroix Channel (see Figure 3). When the refinery ceased operation, some unprocessed bauxite was left in the FBS. Alumina and red mud from decommissioning of tanks and other equipment were added to the bauxite pile upon shutdown, and the FBS has also been

used to stage some debris. The FBS shed currently contains a pile that covers approximately 1 acre; the pile consists of a mixture of red mud, alumina, bauxite, and debris, with approximately 8 to 14 inches of residual red mud from decommissioning of equipment covering the surface.

The alumina refinery used approximately 50 million gallons per day of cooling water pumped from Alucroix Channel and subsequently discharged to two ponds constructed in the early 1970s: the 30-acre Upper Cooling Pond (UCP) and the 150-acre Lower Cooling Pond (LCP). These caliche-lined holding basins (i.e., surface impoundments) in the western and southern portions of the property were constructed for cooling and treatment of process water and retention and treatment of storm water [G&M, 1995]. The LCP was initially constructed with twenty outfalls, but silting problems occurred and one primary discharge point to the ship channel has been used since 1981. This outfall is regulated through a Territory Pollution Discharge Elimination System (TPDES) permit issued by Virgin Islands Department of Planning and Natural Resources (VIDPNR) and is designated as Outfall 001A [SSPAI, 2010]. At the time of the EPA investigation in 2011, approximately 2.5 million gallons per day of process water from desalination and storm water flowed through the cooling ponds. The recent cessation of desalination in 2012 has reduced this flow to include only storm water.

1.5 Documented Spills and Releases

There have been various documented petroleum releases at the Site throughout the years and a resultant plume of separate-phase petroleum hydrocarbons exists on the water table in the eastern portion of the Site, north of Alucroix Channel [G&M, 1995; SSPAI, 2010]. About 40 wells have been installed over the years to monitor the plume and remove light non-aqueous phase liquid (LNAPL) and contaminated ground water from the subsurface. Leaks from tanks and associated piping at the Site and the adjacent HOVENSA facility created the plume, which is being remediated under an Administrative Consent Order with EPA. These remedial activities are overseen by the Resource Conservation and Recovery Act (RCRA) Branch of EPA and are not discussed further in this report, except in the context of Site-wide ground water. In addition to the various petroleum spills, there have been other releases at the Site as described below.

During the plant shutdown in 1985, approximately 19 million gallons of spent caustic liquor containing arsenic and chromium and diluted with seawater were pumped into the cooling ponds. The release resulted in a layer of solids (i.e., milky white precipitate) that was subsequently dredged for disposal in RMB. Additional releases of more than 80,000 gallons of plant liquor to the cooling ponds are documented for the period from 1992 to 1994. During the same timeframe, there were releases of fly ash and filtrate to the cooling ponds, sulfuric acid to the ground and to the ship channel, and coal particulate to the ship channel [G&M, 1995].

In September 1998, wind-blown fugitive dust, identified as bauxite by VIDPNR, was deposited onto residential properties located 750 feet north of the Site as a result of Hurricane Georges. Observations by VIDPNR indicated that reddish material had been deposited onto the residential structures and their drinking water cisterns. EPA sampling confirmed that bauxite was in the

cisterns.. VIDPNR issued a Notice of Violation (NOV) to St. Croix Alumina (SCA) for the fugitive dust release, determining that there were no precautionary measures in place to secure the stockpiled bauxite from hurricane winds.

Residents located north of the Site have reported red dust deposition on rooftops, inside cisterns, in outdoor gardens, and on indoor furniture associated with hurricanes and other high wind events.

In November 2001, approximately 25,000 gallons of sulfuric acid spilled from a leaking aboveground tank (T-26-1) to Alucroix Channel. VIDPNR issued an order to SCA requiring it to address this spill. Three monitoring wells (MW-1, MW-2, and MW-3) were installed and sampled by SCA to evaluate the impact of the spill on ground water. Removal of contaminated soil and residual acid was completed in 2002.

In March 2002, a release of red mud from RMA into the sea and shoreline mangrove wetland areas occurred during heavy rainfall. The release occurred after SCA had performed unpermitted grading and recontouring work in RMA. Storm water carrying red mud discharged from RMA, flowed down an unpaved roadway, and entered the drainage ditch that runs along the western boundary of the Site (i.e., the West Ditch). The red mud laden runoff continued along the western boundary of the Site, passed through an 18-inch culvert, and entered a mangrove-lined drainage area. The red mud release then breached beach berms, entered shoreline wetland areas and the sea, and was transported west by shoreline currents. Red mud was observed to be deposited as far as a beach road that runs along the landfill located west of the Site. The release deposited 6 to 10 centimeters (cm) of red mud along the bottom of the drainage path, including 7.5-cm thickness in the deeper part of the mangrove wetland areas. SCA performed berm reinforcement in April 2002, and red mud was removed from the west ditch in June 2002, but subsequent releases in January and April 2003 led to re-accumulation of red mud in the west ditch, including mangrove wetland areas. In September 2003, the west ditch was rerouted from the coastal mangrove area to the LCP.

The persistent erosion problem from RMA continues. The 2006 aerial photograph of the Site and observations made by EPA in June and September 2011 show the migration of red mud across the Site from RMA downslope to the interconnected on-site surface impoundments: the Red Mud Settling Pond (RMS), UCP, and LCP. The aerial photograph and EPA observations also document the erosion and migration of red mud from exposed areas within RMB.

1.6 Previous Investigations

There have been several investigations at the Site throughout the years, including installation of ground water monitoring wells in 1982 and 1995 to evaluate red mud disposal areas. Several efforts in recent years have been conducted to evaluate the waste material that remains on Site, including those events described here.

In 1977, Dames & Moore (D&M) on behalf of MMA completed soil borings to evaluate geotechnical aspects of three areas (RMA, RMB, and Area C [southeast portion of Site]) for feasibility of red mud storage. Geotechnical analyses of red mud samples classified it as inorganic silt of low plasticity with permeability of 5×10^{-6} centimeters per second (cm/s), while semi-quantitative analyses indicated that chromium and vanadium were present in the red mud. A 20-foot-high containment dike of marl was observed at the south end of RMA, while the east and west ends of the dike joined natural high ground at the 40-foot contour. While portions of RMA were found to be directly underlain by the natural marl formation (i.e., Kingshill aquifer), which consists of silty and clayey sand and gravel, RMB and Area C were found to be underlain by highly plastic, silty clay (i.e., Lagoonal Clay) with permeabilities of 10^{-9} to 10^{-6} cm/s [D&M, 1977].

In April 1982, EPA performed a RCRA inspection at the Site. EPA observed two types of process waste being deposited in RMA: red mud (the majority of waste) and wash water used to remove organic matter from the aluminum hydrate crystals in tanks (a washing process that occurred over a 3- to 5-day period every two months). EPA collected samples of both waste materials for EP toxicity metals analysis. The results showed that the red mud exceeded the allowable concentration for mercury, and the wash water exceeded the arsenic and selenium limits [EPA, 1983].

From December 1981 to February 1982, Geraghty and Miller, Inc. (G&M) on behalf of MMA installed twelve monitoring wells (G-1 through G-12) at the Site and collected preliminary ground water samples. The investigation found that the refinery was underlain by strata of moderate to high permeability, ground water flows south toward the channel and sea, and fresh ground water exists under the northern portion of the Site. Elevated levels of pH, fluoride, arsenic, cadmium, and chromium were detected in on-site ground water in the vicinity of the red mud disposal areas [G&M, 1982]. Additional ground water sampling events in July 1983, December 1983, March 1984, June 1984, January 1989, and March 1989 confirmed the elevated levels of pH, fluoride, arsenic, cadmium, and chromium in on-site ground water. G&M reported in 1989 that well G-12 had been destroyed and well G-2 had been damaged [G&M, 1989].

In 1993, a characterization of the Site red mud was conducted on behalf of VIALCO. Elemental analysis of red mud samples from both disposal areas indicated elevated concentrations of silver, arsenic, chromium, selenium, and vanadium. Elemental analysis also indicated elevated concentrations of thorium and uranium in red mud samples from both disposal areas, however, radioisotope analysis was not conducted [Wagh, 1993]. Also in 1993, a geotechnical evaluation of RMA indicated that the red mud water content was 30 to 55%, the dikes consisted of red mud and compacted marl, and the disposal cell elevations ranged from 40 to 110 feet at that time [BCI, 1993]. VIALCO applied for and was granted a Coastal Zone Management (CZM) permit for expansion of RMA in September 1994.

In 1995, G&M on behalf of VIALCO completed an environmental assessment at the Site. G&M installed six additional monitoring wells (GM-13, GM-13D, GM-14, GM-18, GM-19, and GM-22) and collected ground water samples from the new wells and five existing on-site monitoring wells (G-3, G-4, G-7, G-9, and G-11). The results indicated the presence of arsenic and selenium above primary drinking water standards (i.e., Maximum Contaminant Levels [MCL]) in the immediate vicinity of the red mud disposal areas. Secondary drinking water standards for aluminum, pH, chloride, fluoride, total dissolved solids (TDS), and sulfate were also exceeded in on-site ground water. Monitoring well GM-13D, located along the south perimeter of RMA and completed within the underlying limestone aquifer, showed an arsenic concentration of 836 micrograms per liter (µg/L). The 1995 investigation also included collection of solid samples from the cooling ponds; chromium was detected in both cooling ponds and arsenic was detected in the LCP [G&M, 1995].

Beginning in approximately 1994, about 40 wells have been installed in the northern and northeastern sections of the Site to evaluate and remediate the existing petroleum hydrocarbon plume. These wells include VW-1 through VW-38, as well as wells MMX and MM9. There are also several wells on the western edge of the HOVENSA property that are used to monitor and contain the plume. The wells currently included in the semiannual perimeter ground water monitoring program for this plume are G-11, GM-14, VW16, VW22 (dry), VW25, VW27, VW37, and MMX. The sampling program includes petroleum-related contaminants and indicates that these perimeter wells remain outside the influence of the plume [EPA, 1982-2011].

In 2001, Arthur D. Little Inc. (ADLI) completed an environmental due diligence assessment of the Site on behalf of ALCOA. ADLI observed that RMA was uncovered and contained several steep, unvegetated slopes, and reported that it was undergoing restoration. ADLI also reported that bottom ash from the coal-fired boiler was still being disposed of in the unlined settling pond (i.e., ADP) at that time [ADLI, 2001].

In March 2009, EPA collected four surface waste samples (including one environmental duplicate sample) from three locations within RMA. The samples were analyzed for Target Analyte List (TAL) and Toxicity Characteristic Leaching Procedure (TCLP) metals. TAL analyses indicated maximum arsenic, mercury, and vanadium concentrations of 20.2 milligrams per kilogram (mg/kg), 0.32 mg/kg, and 695 mg/kg, respectively. TCLP analyses indicated maximum arsenic, chromium, and selenium concentrations of 24.8 µg/L, 1,010 µg/L, and 96.7 µg/L, respectively, which are below the threshold criteria for characteristic hazardous waste. The TAL analyses indicated the presence of chromium, but the results were considered to be unusable [WESTON, 2009].

In April-May 2010, Integrated Science & Technology, Inc. (IST) on behalf of SCRG completed a subsurface soil and ground water sampling investigation of the RMB and ADP areas. Direct-push borings encountered red mud to depths greater than 24 feet in RMB and black ash to a depth of 15.5 feet in ADP. Other debris, including fabric and black ash, were also encountered

within red mud deposits in the southwest corner of RMB. The Lagoonal Clay was encountered beneath the waste materials throughout the area. Analytical results for the investigation indicated elevated concentrations of arsenic, chromium, mercury, selenium, and vanadium in the waste materials deposited at the Site and in monitoring well GM-22. Elevated levels of arsenic and vanadium were also detected in monitoring well GM-18. The investigation also showed that the deposited red mud waste and associated shallow ground water maintain high pH levels. Inorganic analysis of aqueous samples collected from monitoring well GM-22, believed to represent red mud leachate in RMB above the clay confining layer, indicated arsenic at 5,100 µg/L and a pH of 12.81 [IST, 2010a].

In December 2010, VIDPNR completed a field sampling event at the Site. Soil, sediment, and surface water samples were collected from on- and off-site locations, including the red mud disposal areas, Alucroix Channel, and the cooling ponds. The analytical results indicated elevated concentrations of arsenic, chromium (including hexavalent chromium), mercury, selenium, vanadium, and uranium at on-site locations, including the UCP and red mud disposal areas.

In July 2011, the EPA National Decontamination Team conducted an aerial radiological survey of the Site, HOVENSA, and residential areas to the north through the Airborne Spectrophotometric Environmental Collection Technology (ASPECT) program. The ASPECT program uses radiation detectors calibrated according to International Atomic Energy Agency (IAEA) specifications and specifically designed for airborne detection and measurement of low-level gamma radiation from naturally occurring and man-made sources. The ASPECT survey results indicated that areas associated with red mud deposition show concentrations of thorium and uranium at approximately 7 picocuries per gram (pCi/g) and 1 pCi/g, respectively, compared to respective background concentrations of approximately 0.09 pCi/g and 0.18 pCi/g (measured in the residential areas to the north). Conversion to exposure units (excluding contributions from cosmic radiation) yielded an exposure rate of 17 microroentgens per hour (µR/hr) from red mud deposition areas, compared to an exposure rate of 2 µR/hr in residential areas to the north [EPA, 2011].

2 Scope/Field Activities

This section describes the screening, sampling, sample management, and analytical procedures implemented during the September 2011 field activities. All activities were completed and all samples were collected as part of the combined ESI-RA with radiological measurements. The logbooks and field data sheets from the field activities are included in Appendix A, and photo documentation is included in Appendix B.

The EPA team completed the sampling and screening effort at the Site from September 12-21, 2011. EPA investigated source areas and migration pathways, including the overland flow of red mud from source areas into water bodies at the Site. Waste samples were collected to characterize sources, and background soil samples were collected as reference for comparison. Surface water and sediment samples were collected to evaluate the impact of waste sources to the on-site and off-site overland flow pathway. Ground water samples were collected from existing on-site monitoring wells to characterize ground water quality in specific areas of the Site and evaluate the impact to ground water. Source areas, sampling locations, and residential areas to the north (Bethlehem Village/Profit Hills and Estate Profit) were screened with radiation detection monitors to evaluate radioactivity and potential exposures.

During the ESI-RA sampling event, WESTON personnel collected totals of 74 waste samples, 7 waste/sediment samples, 17 soil samples, 11 unfiltered ground water samples, 11 filtered ground water samples, 52 surface water samples, and 52 sediment samples (the totals include environmental duplicate samples) from locations on and in the vicinity of the Site. WESTON logged sample locations electronically using Global Positioning System (GPS) equipment and performed post-processing differential correction of the GPS data in accordance with EPA Region 2 GPS Standard Operating Procedures. The processed GPS data for the sample locations has been transferred to the Sample Location Map (Figure 4) using Geographic Information Systems (GIS).

Table 1 presents the latitude and longitude coordinates of sample locations, expressed in decimal degrees. Table 2 presents the sample descriptions and analyses performed for all samples collected during the September 2011 sampling event.

2.1 Radiological Screening

Prior to collecting samples from the waste source areas (RMA, RMB, ADP, and FBS), as well as many of the surface water/sediment sample locations, EPA performed radiological screening of proposed sample locations using a Ludlum Model 19 MicroR meter. Areas of approximately 100 square feet around each proposed location were screened and red mud waste samples were collected from the location within the area with the highest reading. Upon sample collection, EPA measured gamma exposure rates (expressed in µR/hr) at ground surface and at 1 meter height for each location. Additionally, EPA performed dose rate screening of RMA and RMB

using a SAM-940 nuclide detector equipped with a 2-inch by 2-inch sodium iodide (NaI) probe. At each screening location, the SAM-940 acquired measurements over a 3-minute time interval.

EPA also performed gamma count rate surveys measuring gamma activity as counts per minute (cpm) along the northern fence-line north of RMA, and in adjacent off-site locations to the north of RMA including the Bethlehem Village/Profit Hills (Harvey) residential area, Estate Profit (Matthews Charles) residential area, the Pedro Cruz Ballfield, and the Pedro Cruz Recreation Area. These surveys were performed with the Rapid Assessment Tool (RAT), which included a Ludlum Model 2241 meter equipped with a 2-inch by 2-inch NaI probe mounted in a stroller. All radiological screening activity locations were recorded using GPS equipment. Radiological screening results are discussed in the May 2012 EPA report titled *Radiological Assessment Report, St. Croix Alumina (Renaissance Park) Site, St. Croix, U.S. Virgin Islands (RAR)*, dated May 2012.

2.2 pH Measurements

Based on the expected high pH (corrosive) nature of red mud, the sampling team measured the pH of all samples collected during the ESI-RA sampling event for site characterization and to identify samples that might be corrosive enough to require compliance with applicable regulations regarding air transport to the laboratories. WESTON calibrated the pH meters used for these measurements with pH 7 and pH 10 buffer solutions using a two-point calibration at least on a daily basis. Aqueous samples were field-tested for pH according to EPA Method 9040C directly at the sampling location or from an extra aliquot brought back to the command post. Solid samples were field-tested for pH according to EPA Method 9045D, using the following procedures:

- A 20-gram aliquot of sample was weighed and mixed with 20 milliliters of deionized water in an unused 2-ounce (125-mL) glass jar.
- The mixture was shaken for 5 minutes and then allowed to settle for at least one hour.
- The sampling team measured the pH of the mixture, and recorded the pH measurement on a field log sheet.

Tables 3 and 4 present the pH measurements for solid and aqueous matrix samples, respectively. Both data sets are sorted from highest (i.e., most alkaline) to lowest. The pH measurements for all samples are presented in Figure 5.

2.3 Sampling

During the ESI-RA sampling event, WESTON personnel collected a total of 74 waste samples from the four source areas (RMA, RMB, ADP, and FBS), 7 waste/sediment samples from the RMA Depositional Area, 17 background soil samples, 11 unfiltered ground water samples, 11 filtered ground water samples, 52 surface water samples, and 52 sediment samples (the totals

include environmental duplicate samples) from locations on and in the vicinity of the Site. Table 1 lists the sample location coordinates and Figure 4 depicts the sample locations. Table 2 lists the sample descriptions and associated analyses.

2.3.1 Background Soil Sampling

The EPA team collected a total of 17 background soil samples (the total includes environmental duplicate samples) from areas on and near the Site believed to be unaffected by the alumina refinery operations, specifically the northeast portion of the subject property and an area near the WWTP west of the Site. Surface soil samples were obtained by collecting material directly from the 0- to 6-inch depth interval below ground surface (bgs) with a dedicated, disposable plastic scoop. Subsurface soil samples were retrieved from depths ranging from 16 to 42 inches bgs with decontaminated bucket augers. Subsurface soil samples were obtained by boring to refusal with a bucket auger. Once refusal was encountered by the auger, a second hole was bored adjacent to the first hole to a depth approximately one foot shallower than the refusal depth. At that point, a decontaminated bucket auger head was exchanged for the one used to bore to depth, and the subsurface sample was collected with the clean auger at a depth just above refusal. For each sample, the retrieved soil was collected into and homogenized in a dedicated aluminum tray before filling respective sample containers. Remaining soil not used for field pH measurements or laboratory analyses was discarded at the sampling location.

2.3.2 Waste Sampling

The EPA team collected a total of 74 waste samples from the four identified waste sources (RMA, RMB, ADP, and FBS) at the Site, as well as 7 waste/sediment samples from the RMA Depositional Area (the totals include environmental duplicate samples). A total of 51 environmental samples were collected from RMA, including surface waste samples, subsurface waste samples, surface water samples, and sediment samples. A total of 22 environmental samples were collected from RMB, including surface and subsurface waste samples. A total of 13 environmental samples were collected from ADP, including surface waste samples, subsurface waste samples, surface water samples, and sediment samples. A total of four environmental surface waste samples were collected from FBS.

Waste sampling in all areas was conducted preferentially where waste (e.g., red mud or ash) had come to be located through disposal or migration and where it was currently exposed at the surface. Waste samples were collected using dedicated, disposable plastic scoops and aluminum trays. Surface waste samples were collected from the 0- to 3-inch depth interval. Subsurface waste samples were retrieved from the depths noted in Table 2 with decontaminated, stainless-steel bucket augers. Remaining waste material not used for field pH measurements or laboratory analysis was discarded at the sampling location.

Surface waste samples in all areas were obtained by collecting material directly from the surface using a dedicated, disposable plastic scoop. Surface waste material was scooped into dedicated, disposable aluminum trays and homogenized prior to filling respective sample containers.

Due to the dense, fine-grained, and dry composition of the waste material in the top portion of RMA, the proposed sample collection technique of coring or augering straight down from the surface proved prohibitive. The direct-push slam-bar coring device got stuck in the first hole, and the fine, dry material released from auger heads before it could be extracted to the surface. As a field modification, the subsurface waste samples in RMA were collected by augering into the sidewalls of exposed erosion channels at depths greater than 24 inches below the top of the channel. By augering into the side of erosion channels, subsurface waste samples could be collected diagonally or horizontally and required less material to auger through. Subsurface sample depths in this area are measured from the ground surface at the top of the pile directly above the sample. Subsurface waste material was collected into and homogenized in a dedicated, disposable aluminum tray before filling respective sample containers.

Subsurface waste samples in RMB and ADP were obtained by boring to a depth greater than 24 inches bgs with a bucket auger. The depth at which subsurface samples were collected was contingent upon the depth at which the auger encountered refusal. Once refusal was encountered by the auger, a second hole was bored adjacent to the first hole to a depth approximately one foot shallower than the refusal depth. At that point, a decontaminated bucket auger head was exchanged for the one used to bore to depth, and the subsurface sample was collected with the clean bucket auger at a depth just above refusal. Subsurface waste material was collected into and homogenized in a dedicated aluminum tray before filling respective sample containers.

Subsurface waste samples were not collected from the FBS area due to the absence of red mud waste material below 24 inches in the waste pile.

2.3.3 Surface Water/Sediment Sampling

EPA collected a total of 52 surface water samples and 52 sediment samples (the totals include environmental duplicate samples). Two of the surface water samples were collected from RMA. Sample SW-RMA-WST12 was collected from the ponded water at the top of the pile near waste sample location RMA-WST12. Sample RMA-SW57 was collected from the runoff flowing off the pile during a rainstorm on September 20, 2011.

Surface water samples were collected directly into the required containers, without the use of sampling devices, by submerging the bottles. Surface water samples were obtained from perimeter areas where water depths were shallow (i.e., less than 6 inches). The surface water samples from RMA were collected directly into sample containers from surface water sources (i.e., ponded water and runoff). At each specific location where both surface water and sediment samples were collected, surface water samples were collected prior to sediment samples.

Sediment samples were generally collected in correlation to surface water sample locations. Sediment samples were collected with dedicated, disposable plastic scoops from the 0- to 6-inch depth interval and were homogenized in dedicated, disposable aluminum trays prior to filling respective containers. Sediment samples from the RMA Depositional Area were retrieved with a stainless-steel bucket auger prior to homogenization and containerization. All remaining sediment not used for field pH measurements or laboratory analysis was discarded at the sampling location.

2.3.4 Ground Water Sampling

The EPA team collected a total of 11 unfiltered ground water samples and 11 filtered ground water samples (each total includes one environmental duplicate sample). Ground water samples were collected from existing on-site monitoring wells using low-flow sampling procedures. Wells were purged and sampled at a flow rate below 500 milliliters per minute (mL/min) with a bladder pump. Dedicated, disposable bladders and sample tubing were used for each well. During well purging, the following field indicator parameters were measured and recorded at 3- to 5-minute intervals: pH, temperature, dissolved oxygen (DO), and conductivity. Wells were purged until these indicator parameters stabilized for three consecutive readings. In-line analyzers and continuous readout displays were used. The bladder pump was decontaminated prior to sampling and between well sampling locations. Filtered ground water samples were collected through in-line, dedicated, disposable, 0.45-micron filter cartridges.

2.3.5 Blanks

Five rinsate blanks were collected to demonstrate adequate decontamination of non-dedicated sampling equipment. Deionized water was poured over the equipment (hand augers, bladder pumps) and into the sample containers. Four trip blank samples (in conjunction with the ground water samples for volatile organic compounds (VOC) analysis) were collected to demonstrate that atmospheric VOCs were not seeping into sample vials and that there was no cross-contamination between samples.

2.3.6 Decontamination

All non-dedicated sampling equipment involved in soil, waste, and ground water sampling activities (i.e., stainless-steel auger buckets and bladder pumps) was decontaminated prior to and between each sample location. Decontamination was conducted on location and all wastewater was collected into a 5-gallon bucket. The decontaminating procedure consisted of scrubbing the equipment with an Alconox and tap water solution to remove all visual contamination. The equipment was then generously washed with a deionized water pressure spray and allowed to air dry. Rinsate blanks were collected to demonstrate the adequacy of the decontamination procedures.

2.4 Sample Handling and Shipping

Based on a review of available literature on alumina extraction by the Bayer process, as well as existing site-specific information and analytical results, a WESTON dangerous goods (DG) shipping advisor determined that the radioactive and corrosive (high pH) natures of the red mud waste required the field team to ensure that samples offered for shipment by air transport were identified, labeled and packaged in accordance with current International Air Transport Association (IATA) regulations. The WESTON DG shipping advisor determined that the red mud samples from the Site would not be regulated for radiation per IATA regulations and that the radiation component would not have to be considered for shipping purposes. Therefore, pH was the determining factor for safe sample handling and shipping.

As described above in Section 2.3, the sampling team measured the pH of all samples collected during the ESI-RA sampling event. Samples that indicated a pH less than 11.0 were packaged and shipped to the laboratories as environmental samples, while samples with pH of 11.0 or greater were packaged and shipped as dangerous goods (corrosive solids, N.O.S.). Traffic reports (TR)/chain-of-custody (COC) forms, sample labels, custody seals, and other sample documents were completed as specified in the *EPA Contract Laboratory Program (CLP) Guidance for Field Samplers* (May 2010) and *OSWER Directive 9200.1-103, Inclusion of Scribe into the Role of Tracking Superfund Sampling Data* (November 2010).

Each sample container was labeled with sample ID, collection date and time, and required analyses. Aqueous samples for metals and radioactive element analyses were preserved with nitric acid (HNO_3) to pH less than 2. Aqueous samples for VOC analysis were preserved with hydrochloric acid (HCl) to pH less than 2. One custody seal signed by the sampling team was affixed across the closure of each sample container. Each container was sealed in a locking polyethylene bag and placed in a plastic cooler lined with a large plastic bag (i.e., garbage bag). Samples for organic, inorganic, chloride, and TOC analyses were packed with sufficient ice (sealed in polyethylene bags) to cool the samples to 4°C (ice preservation was not required for radiological or grain-size analyses). Non-combustible, adsorbent cushioning material was placed in the cooler to minimize the possibility of container breakage. The large plastic bag was then sealed, the cooler was closed, and custody seals and strapping tape were affixed to the outer packaging.

For shipping and safety purposes, each solid sample that indicated a pH greater than 11.0 was handled as corrosive solids. These samples were classified as follows: UN 3262, Class 8, Corrosive solid, basic, inorganic, n.o.s. (bauxite processing mixture), PG II, Packing instruction Y844, Limited Quantity. The maximum quantity per package (cooler) was 5 kilograms (kg) and the maximum quantity per inner container was 0.5 kg. All coolers were lined with a trash bag, padding, and ice (if required) per normal shipping procedures as described above. WESTON ensured that the outsides of sample containers, plastic bags, and shipping containers were free of red mud or other waste material. Labels on the coolers included a Class 8 sticker, a Limited

Quantity label, a WESTON address label with the laboratory name on it, and a label with the following: UN 3262 / Corrosive solid, basic, inorganic, n.o.s., (bauxite processing mixture) / Net Qty = X Kg, where X is the net weight of samples in the cooler.

With the exception of ground water samples SCA-GW06 and SCA-GW06F collected from monitoring well GM-22, aqueous samples (surface water, ground water, and blanks) were packaged and shipped as environmental samples due to pH levels below 11.0. Due to a pH reading of 12.78 for well GM-22, the unpreserved portions of the sample (TCL SVOCs and Aroclors) were classified as Corrosive liquid, basic, inorganic, n.o.s. (bauxite processing mixture) and were shipped accordingly inside U.N. Specification Packaging. The sample containers were taped shut, sealed within locking polyethylene bags, and packaged with ice and padding inside sealed metal cans. A maximum of four metal cans were packaged inside each appropriate cardboard box. Labels on these outer boxes included a Class 8 sticker, a WESTON address label with the laboratory name on it, and a label with the following: UN 1760 / Corrosive liquid, basic, inorganic, n.o.s., (bauxite processing mixture).

WESTON conducted screening with a Ludlum MicroR meter to confirm that radiation levels did not exceed 250 µR/hr on the outside of any sample container or cooler. Sample coolers and boxes were shipped via common carrier (i.e., Federal Express) to the laboratories. Information relating to the shipment of samples, including the airbill number, sample quantity, and sample types, was reported to the EPA Sample Management Office on the day of or morning after each shipment.

WESTON maintained each sample on ice and under custody until the sample pH was recorded and the determination for shipping procedures completed. The chain-of-custody and sample dispatch information are presented in Tables 5, 6, and 7. Copies of the chain-of-custody records and associated shipping airbills are included in Appendix C.

2.5 Analytical Procedures

The following laboratory analytical procedures were used on this project:

- With a few exceptions, the samples collected in September 2011 were analyzed by the EPA Region 2 Laboratory (EPA-DESA) in Edison, New Jersey for TAL metals according to method EPA 200.7 / SOP C-109 and for mercury according to method EPA 245.1 / SOP C-110.

- All waste samples and selected background soil, surface water, sediment, and ground water samples were analyzed by the EPA National Air and Radiation Environmental Laboratory (EPA-NAREL) in Montgomery, Alabama for radiological characteristics. Solid samples were analyzed for radioisotopes of radium, thorium, and uranium by gamma spectroscopy (including Ra-226, Ra-228, Th-232, and U-238) and alpha spectroscopy (including Th-230, Th-232, U-234, U-235, and U-238). Aqueous samples

were analyzed for radioisotopes (including Ra-226, Ra-228, Th-230, Th-232, U-234, U-235, and U-238) and total uranium by alpha spectroscopy. The isotopic analyses by alpha spectroscopy are generally more accurate than the gamma spectroscopy analyses.

- Surface water and unfiltered ground water samples were analyzed by EPA-DESA for chloride according to Method EPA 300.0 / SOP C-94.

- Sediment samples were analyzed by EPA-DESA for total organic carbon (TOC) according to method EPA 415.1 mod / SOP C-88 and for grain-size distribution according to method ASTM D422-63 / BIO 8.3.

- Approximately 20 percent of the samples were analyzed by Chemtech Consulting Group (CHEMTECH) in Mountainside, New Jersey for Target Compound List (TCL) semivolatile organic compounds (SVOC) and Aroclors through the EPA Contract Laboratory Program (CLP) under Case No. 41746.

- Unfiltered ground water samples and trip blanks were analyzed by CHEMTECH for TCL VOCs under CLP Case No. 41746.

Table 2 shows the applicable laboratory analyses for all samples collected during the ESI-RA sampling event. The samples were received by the laboratories intact and under custody.

3 Physical Characteristics and Observations

This section describes the environmental setting for the Site, including hydrology and geology, and the observations recorded by EPA regarding Site and source conditions and overland drainage pathways. EPA identified and investigated several areas of environmental concern at the Site. Source areas used for disposal or abandonment of waste materials include the RMA, RMB, ADP, and FBS. Surface impoundments and other water bodies along the surface water migration pathway affected or threatened by contaminant migration include the RMS, UCP, LCP, west ditch (WES), coastal mangrove wetland areas, Alucroix Channel (ACC), and the Caribbean Sea. At the time of the EPA investigation in 2011, approximately 2.5 million gallons per day of process water from desalination and storm water flowed through the cooling ponds. The recent cessation of desalination in 2012 has reduced this flow to include only storm water. Photo Logs for the areas of concern at the Site are included in Appendix B. In addition to the areas of concern, impacts to ground water were investigated.

3.1 Source Areas

3.1.1 Red Mud Disposal Area A

RMA covers about 78 acres near the northwest corner of the Site (see Figure 3).. A graded toe road that defines the southern limits of RMA forms the crest of the original containment dike constructed prior to disposal of red mud within the area. RMA received estimated totals of 4,613,449 metric tons of red mud and 110,000 metric tons of ash. The RMA red mud pile exceeds elevations of 100 feet above MSL, and boreholes completed in 2006 indicated red mud thicknesses of 28 to 60 feet throughout RMA.

A release of red mud from RMA to the ocean and shoreline mangrove wetland areas via the west ditch was documented in 2002, and additional releases of red mud to mangrove wetland areas occurred in 2003. The releases occurred after SCA had performed unpermitted grading and recontouring work of the red mud storage area. Measurable quantities of red mud were observed to be deposited within mangrove wetland areas. Although runoff has since been rerouted, the persistent erosion problems from RMA continue. Storm water has created large erosion channels throughout most of RMA, and runoff water carries red mud off the pile in large quantities. The 2006 aerial photograph of the Site and observations made by EPA in June and September 2011 show the migration of red mud across the Site from RMA downslope to the interconnected on-site surface impoundments: the RMS, UCP, and LCP.

3.1.1.1 RMA Depositional Area

EPA observed a large area south of the RMA waste pile covered with up to 2.5 feet of red mud (designated herein as the RMA Depositional Area). During a rainstorm on September 20, 2011, EPA observed red mud-laden runoff flowing off the RMA pile, through the RMA Depositional Area, and into downstream water bodies. This runoff water flowing into and across the RMA Depositional Area exhibited a pH of 10.55. EPA collected eight waste/sediment samples (RMA-

SD57 to RMA-SD63 and RMS-SD47) for TAL metals analysis from seven locations within the RMA Depositional Area. The samples consisted of red mud and showed field pH levels as high as 10.48. Drainage through the RMA Depositional Area leads directly to the RMS and UCP.

3.1.2 Red Mud Disposal Area B

The RMB former disposal area covers approximately 81 acres in the center portion of the Site, south of the former refinery, and it surrounds ADP on three sides (see Figure 3). RMB, which was built on top of a mangrove swamp, consisted of seven disposal cells surrounded by perimeter dikes built of carbonate material. Excess caustic liquid from RMB drained to a dewatering pond in the southeastern part of the source area (i.e., the ADP). RMB received an estimated total of 1,229,149 metric tons of red mud during its years of operation. The April-May 2010 subsurface investigation by IST indicated red mud to depths greater than 24 feet in RMB. Elevated concentrations of arsenic, chromium, mercury, selenium, and vanadium were detected in the RMB waste and in monitoring wells GM-22. Elevated levels of arsenic and vanadium were also detected in monitoring well GM-18. The investigation also showed that the deposited red mud waste and associated shallow ground water maintain high pH levels. The Lagoonal Clay was encountered beneath the waste materials throughout the area. The aqueous samples collected from monitoring well GM-22, believed to represent red mud leachate in RMB above the clay confining layer, showed arsenic at 5,100 µg/L and a pH of 12.81.

The RMB disposal area is partially covered with top soil and a caliche capping layer, and some of it has revegetated, but there are several exposed areas of red mud and associated runoff routes. Drainage pathways from RMB include discharge pipes to the UCP on the north and west sides and discharge to the LCP along the southern edge. The southern drainage pathway is partially fed by a man-made drainage ditch that originates at ADP and flows south through areas of exposed red mud within RMB. Water levels in the available monitoring wells also suggest the possibility of an eastern component to shallow ground water flow from this portion of the Site toward Alucroix Channel.

3.1.3 Ash Disposal Pond

The ADP surface impoundment is located in the approximate center of the subject property and is surrounded on three sides by RMB (Figure 3). ADP was used for the disposal of ash from on-Site boilers. The total area of ADP is approximately 15 acres, the southeast corner of which consists of exposed ash with some vegetated areas; the remainder consists of an unlined disposal pond. The amount of ash deposited in ADP is unknown. During the April-May 2010 subsurface investigation by IST, black ash deposits were encountered as deep as 16 feet bgs. The volume of waste in the accessible portion of ADP (i.e., southeast corner) is conservatively estimated at 5,957 cubic yards (yd^3). A drainage ditch leads south from ADP through RMB and ultimately to the LCP. Water levels in the available monitoring wells also suggest the possibility of an eastern component to shallow ground water flow from this portion of the Site toward Alucroix Channel.

3.1.4 Former Bauxite Storage Shed

FBS is a roofed storage shed with open sides that measures approximately 3.8 acres. FBS was formerly used for the storage of bauxite ore and currently contains a 1-acre pile of red mud, alumina, bauxite, and debris; the pile reaches a maximum height of about 15 feet. Red mud and alumina were transferred to FBS from piping and machinery at the time the facility was shut down. Although FBS is covered by a roof, observations made by EPA in September 2011 indicate that the roof leaks, that rainwater has caused erosion and migration of the stockpiled red mud, that red mud has breached a silt fence along the south side of the pile, and that erosion channels have cut through a containment berm. The primary drainage pathway from FBS flows south-southwest to a storm water basin. In addition to the overland drainage pathways, ground water flows south and east and discharges to Alucroix Channel just east of FBS.

3.2 Surface Water Migration Pathway

The primary overland drainage pathways to surface water at the Site flow south from RMA, through the RMA Depositional Area and Red Mud Settling Pond to the UCP, and subsequently to the LCP. The LCP discharges to Alucroix Channel via permitted outfall and possibly to the coastal mangrove wetland areas via culverts observed during the 2011 investigation. The discharge from the RMS to the northern end of the UCP is via outfall. Drainage from RMB also discharges west to the UCP and south to the LCP, and drainage from ADP flows south through RMB to the LCP. The drainage pathway from FBS is primarily south-southwest to a storm water basin.

3.2.1 Red Mud Settling Pond

The RMS receives red mud runoff from RMA and transports it to the cooling ponds. Observations made by EPA in June and September 2011 and aerial photos show the migration of red mud across the site from RMA downslope to the RMS. As described above, the RMS receives red-mud-laden runoff from the RMA waste pile. In turn, drainage through the RMS discharges via outfall to the UCP. During the September 2011 investigation, EPA observed large quantities of red mud throughout the RMS. Field pH levels in RMS ranged from 9.53 to 10.10 for aqueous samples and 9.68 to 10.48 for solid samples.

3.2.2 Upper Cooling Pond

The 30-acre UCP is a caliche-lined holding basin in the western portion of the property along the west edge of RMB. It was constructed along with the LCP in the 1970s for cooling of process water and retention of storm water. The alumina refinery pumped approximately 50 million gallons per day of seawater from Alucroix Channel, used it as cooling water, and subsequently discharged it to the cooling ponds. At the time of the EPA investigation in 2011, flow through the UCP and into the LCP (via spillway) was approximately 2.5 million gallons per day. The recent cessation of desalination in 2012 has reduced this flow to include only storm water. Red mud is present in significant quantities throughout the UCP.

3.2.3 Lower Cooling Pond

The 150-acre LCP is a caliche-lined holding basin in the low-elevation southern portion of the property along the southern edge of RMB. It was constructed along with the UCP in the 1970s for cooling of process water and retention of storm water. Red mud is present in significant quantities throughout the LCP. The LCP was initially constructed with 20 outfalls to Alucroix Channel and the Caribbean Sea, but silting problems occurred and one primary discharge point (TPDES Outfall 001A) to the ship channel has been used since 1981.

3.2.4 Overland Flow Pathways

Topography at the SCA site generally slopes south toward the Caribbean Sea (Figure 1). There are multiple drainage pathways to surface water from Site sources (Figure 3). Appendix B includes photo documentation depicting many of the overland drainage pathway features at the Site, in downstream order beginning at RMA.

The primary overland drainage pathways at the Site originate from RMA, flow south through the RMA Depositional Area and RMS to the UCP, and subsequently flow to the LCP. The discharge from the RMS to the northern end of the UCP is via outfall. The LCP discharges to Alucroix Channel via permitted outfall and possibly to the coastal mangrove wetland areas via culverts observed during the 2011 investigation. The historical drainage pathway to the West Ditch, which is classified as a perennial surface water body by VIDPNR, is also evaluated. The 2002-2003 red mud releases entered the northern end of the West Ditch, which historically flowed directly south through the coastal mangrove wetland areas to the Caribbean Sea, but was rerouted to the northwest corner of the LCP after the 2002-2003 releases.

The RMB disposal area was partially covered with limestone fill and some of it has revegetated, but there are several exposed areas and associated runoff routes. The aerial photograph and EPA observations document the erosion and migration of red mud from exposed areas within RMB. Drainage pathways from RMB include discharge pipes to the UCP on the north and west sides of RMB and discharge to the LCP along the southern edge. The southern drainage pathway is partially fed by a man-made drainage ditch that originates at ADP and flows south through areas of exposed red mud within RMB.

Although FBS is covered by a roof, observations made by EPA in September 2011 indicate that red mud has breached a silt fence along the south side of the pile and that erosion channels have cut through a containment berm. The primary drainage pathway from FBS flows south-southwest to a storm water basin. Water levels in the available monitoring wells also suggest the possibility of an eastern component to shallow ground water flow from RMB, ADP, and FBS toward Alucroix Channel.

3.2.5 Surface Water Pathway Receptors

The industrial development of the Site and neighboring industrial facilities in the 1960s resulted in the destruction of 260 hectares (642 acres) of mangrove wetland within the Krause Lagoon (i.e., Alucroix Channel). This former wetland complex was once the largest and most important on the south side of St. Croix in terms of high species diversity. Mangroves are legally-protected wildlife habitat in the USVI. A study of waterbird breeding populations conducted by VIDPNR determined that Krause Lagoon is one of the most highly ranked saline wetlands on St. Croix. According to the study, about 50 percent of mangrove and associated saline wetlands have either been degraded or destroyed as a result of coastal development, with the greatest loss occurring in Krause Lagoon. The data gathered by VIDPNR researchers suggested that Krause Lagoon was formerly the best lagoon habitat for waterbirds and several other species. Industrial development of Krause Lagoon resulted in the loss of habitat for up to four species of waterbirds, including the Least Bittern (*Ixobrychus exilis*), which is protected under the Migratory Bird Treaty Act (16 U.S. C. §§ 703-711). The LCP is surrounded by mangroves and remains an important habitat for waterbirds. EPA observed brown pelicans and snowy egrets in the LCP, including pelicans foraging for fish such as tilapia.

From September 9-16, 2011, WESTON personnel including a Certified Wetland Scientist performed reconnaissance to observe wetlands located at and in the vicinity of the Site. The observed wetlands were compared to wetlands mapping included in the U.S. Fish and Wildlife Service National Wetland Inventory (NWI) database. WESTON evaluated the type of vegetated wetlands along the surface drainage pathway for the Site per 40 CFR 230.3, and also evaluated the continuity of vegetated wetland frontage along water bodies including the UCP, LCP, Alucroix Channel, west ditch, and coastal areas. The WESTON wetland scientist observed hydric soils, wetland hydrology, and wetland vegetation (primarily mangroves) at all locations designated as wetlands in the NWI, including the UCP and LCP, the barrier island marsh/swamp complexes south and west of the LCP, and the red mangrove swamps located along both sides of Alucroix Channel. In addition, the west ditch was found to contain wetland areas, although it is not included as a wetland in the NWI. Wetland frontage was documented along the on-site water bodies, including the UCP, LCP, and west ditch (upper and lower sections).

The coastal area at the Site is a fishery. During the 2011 investigation, EPA observed a person fishing for consumption in the ocean near the location of the historical red mud release. Molasses Pier at the end of Alucroix Channel is also regularly used for fishing by the local population. These locations are part of fishing areas that extend along the entire south shore of St. Croix. Leatherback, green, and hawksbill sea turtle habitats are also located along the south shore of St. Croix. The green sea turtle is a federally-designated threatened species; the hawksbill and leatherback sea turtles are federally-designated endangered species.

3.3 Ground Water Pathway

The Site is underlain directly by the Kingshill aquifer, the principal source of ground water in St. Croix. The southern portion of the Site, including the red mud deposits in RMB, is underlain by an average of 12 feet of Lagoonal Clay that might impedes downward migration of contaminants into the aquifer. Previous investigations have shown the presence of fresh water in the aquifer beneath the northern portion of the Site, with a transition zone leading to a sharp increase in salinity just north of the channel and RMB. The 1982 investigation by G&M indicated that baseline water quality at the Site is better than the Fairplain and Barren Spot well fields. A 1990 study indicated that there is a limited amount of usable ground water in the aquifer at the Site (up to about 100,000 gallons per day [gpd]) [TAHAL, 1990]. A follow-up study indicated that ten wells drilled in 1990 could produce up to 432,000 gpd of good-quality fresh water [Bioimpact, 1991]. These wells are not known to have been used except as irrigation for the north slope of RMA in the late 1990s [SSPAI, 2010].

3.3.1 Regional Geology

The island of St. Croix consists of two physiographic areas: (1) rugged hills and low mountains that make up the Northside Range and East End Range, and (2) low-lying to gently rolling hills of the Central Limestone Plain, in which the Site is located. The Northside and East End ranges are horst blocks consisting primarily of the Cretaceous-age Mount Eagle Group, a diverse assemblage of well-lithified, volcanogenic, sedimentary strata, as well as some early-Tertiary igneous intrusive rocks. The Central Limestone Plain is underlain by rocks of the Kingshill Basin, a graben structure filled with a series of poorly-lithified limestone formations of early Miocene to Pliocene age. In ascending order, the rock units of the Kingshill Basin include the Jealousy Formation, Kingshill Limestone (La Reine Member and Mannings Bay Member), and Blessing Formation. Although the deepest drilling of the Kingshill Basin is approximately 1,500 feet below land surface, the total thickness of sediments in the basin might approach 6,000 feet.

The relatively flat-lying rocks of the Kingshill Basin represent a shallowing sequence of marine deposition, from deep-water sediments to shelf and slope facies to reef and lagoon deposits. The early Miocene-age Jealousy Formation consists mainly of planktonic, foraminifera-rich muds, with some basal layers of calcareous conglomerate. A distinctive but unexplained color change marks the boundary between the dark, blue-gray to gray Jealousy Formation and the overlying light buff Kingshill Limestone of Miocene age.

The Kingshill Limestone consists of the basal La Reine Member, a lithologically diverse unit dominated by planktonic foraminiferal carbonate mud and marl, and the upper Mannings Bay Member, which consists of thinly-bedded limestone strata characterized by benthic foraminifera and shelf-derived carbonate clasts. The Blessing Formation of Pliocene age, which unconformably overlies the Mannings Bay Member along St. Croix's southern coast, consists of reef and shelf limestone with patchy zones of dolomitization. The Blessing Formation is thickest (up to 100 feet) at and in the immediate vicinity of the Site, in an area formed by a subsidiary

Pliocene-age graben structure. The Mannings Bay Member and Blessing Formation are coarser-grained than the underlying rocks (they contain poorly-lithified carbonate sand and gravel) and are more affected by diagenetic alteration. Clay-rich alluvium fills some karst cavities in the Blessing Formation and Mannings Bay Member at the Barren Spot well field located northeast of the Site.

Unconsolidated Quaternary-age deposits consisting of alluvial fan, debris flow, beach deposits, and lagoon sediments cover some areas of the central plain, primarily along the northern and southern margins. The alluvial-fan deposits along the Northside Range consist mainly of silt- or clay-rich material less than 30 feet in thickness. In addition, clayey to gravelly alluvium ranging in thickness from 30 to 80 feet fills Pleistocene-age stream valleys incised through the limestone. In some areas, the alluvium contains dark, terrigenous material derived from weathering of the Cretaceous rocks. In areas immediately overlying the Kingshill Limestone, the alluvium consists of light-colored, carbonate material derived from the limestone, and it is difficult to distinguish alluvium from the underlying formations. The Quaternary deposits are thickest (up to 130 feet) along the south coast at and near the Site, where alluvium and lagoon deposits underlie the former Krause Lagoon [USGS, 2002].

3.3.2 Site Geology

The stratigraphic units encountered at the Site during previous subsurface investigations include Lagoonal Clay underlain by the Blessing Formation and Kingshill Limestone (i.e., the upper Kingshill aquifer). The northern portion of the Site, including most of RMA, is an outcrop area of the geologic units that make up the upper Kingshill aquifer, the Mannings Bay Member and Blessing Formation. Exposures of the upper Kingshill aquifer stratigraphic units can be observed in cuts and excavations at the Site and surrounding area. In the area south of RMA, Lagoonal Clay overlies the Blessing Formation in a wedge that thickens south toward the Caribbean Sea. The Lagoonal Clay, which has an average thickness of 12 feet beneath RMB, also contains lenses and layers of sand-rich material.

Table 8 provides the stratigraphic descriptions of the screened interval for numerous on-site monitoring wells. Existing monitoring well logs for the Site are included in Appendix D. Monitoring well and boring logs for the Site show that the wells are completed in a wide variety of carbonate deposits indicative of the poorly-lithified Kingshill aquifer. The descriptions include: limestone ranging from highly weathered to very hard; marl; carbonate sand, gravel, silt, and clay deposits, often with limestone fragments, cobbles, and lenses; caliche; and calcarenite. Color descriptions range from white to orange, and in some cases light grays. There is also a wide range of permeabilities reported, from very low permeability to very permeable. The deposits range from soft to very hard, and voids have been encountered in some boreholes. The Lagoonal Clay is present throughout the southern portion of the Site, but it has not been encountered throughout most of the northern portion of the Site. Weathered limestone of the

Blessing Formation was encountered beneath the Lagoonal Clay in at least one well (G-6) in the southeastern portion of the Site and in direct-push borings in RMB.

3.3.3 Hydrogeology

The principal aquifer on St. Croix is the Kingshill aquifer, which consists of the Kingshill Limestone and Blessing Formation. The Site is located in the outcrop area for the most permeable and porous section of the Kingshill aquifer. The upper Kingshill aquifer consists of the Blessing Formation and Mannings Bay Member, which are more permeable and porous than the underlying units. In formations below the upper aquifer, primary porosity is microscopic with coarser sediments having undergone cementation and recrystallization that destroyed the original permeability. Diagenetic factors such as dissolution of unstable minerals and karstification have affected the permeability of the upper Kingshill aquifer. The Kingshill can be difficult to distinguish from the overlying alluvium that's derived from the aquifer rocks.

Although the Kingshill aquifer is widespread in the Central Plain region, water production is patchy and is poor in large areas. Production in the aquifer is limited to areas where terrigenous components have allowed porosity to be preserved, or production stems from incursion of alluvial aquifers. Fractures within the Kingshill Limestone are also a potential source of water and have been developed in water supply drilling. Most large-yield wells completed in the Kingshill aquifer are also screened in alluvium that overlies or infills incised channels. The alluvial deposits serve as a temporary storage zone for rainfall, runoff, and ground water slowly entering the Kingshill aquifer. The transmissivity of the River Gut alluvial deposits ranges from 20-450 square meters per day (m^2/d). The Fairplain well field is located in this alluvial valley.

Ground water in the Kingshill aquifer beneath the Site is under water-table or semi-confined conditions and generally flows southward to the Alucroix Channel and Caribbean Sea. Water is generally within a few feet of mean sea level (MSL). Ground water in the Lagoonal Clay and fill materials above the Kingshill aquifer is at higher elevation, possibly indicating that there is infiltration to the Kingshill aquifer via a downward flow gradient or discharge to the ship channel and the Caribbean Sea. In 2010, seepage of ground water into the north end of Alucroix Channel and stalagmite-like encrustations at the discharge point were observed. The ship channel is considered to be a major ground water discharge location, with an estimated flow of 25 gallons per minute (gpm) into the northwestern portion of the channel.

In the area south of RMA, Lagoonal Clay overlies the Blessing Formation in a wedge that thickens to the south toward the Caribbean Sea. Previous subsurface investigations indicate that the Lagoonal Clay beneath RMB averages 12 feet in thickness and can be very dense, with hydraulic conductivities from 10^{-9} to 10^{-6} centimeters per second (cm/s). However, layers and lenses of sand and gravel have also been encountered within the Lagoonal Clay. Although the Lagoonal Clay underlies a significant portion of the Site, the majority of RMA is located north of the Lagoonal Clay and sits directly atop the Kingshill aquifer.

In addition to the on-site stratigraphy, the River Gut just west of the Site is an alluvial-filled stream valley. The Fairplain wells are primarily completed within the alluvium to depths of 57 to 105 feet.

Table 9 presents a summary of historical on-site ground water results for contaminants of concern (arsenic, chromium, mercury, selenium, and vanadium) and water quality parameters.

3.3.4 Aquifer Use and Usability

The Site is located in the outcrop area of the most permeable and porous section of St. Croix's principal aquifer. The large number of wells completed in the Kingshill aquifer attests mostly to its areal extent (approximately 30 square miles) and to the limited supply available from other sources rather than its production capabilities. The underlying Jealousy Formation is not a significant water producer and is considered the hydrologic basement, mainly due to declining water quality with increasing depth. The discontinuous alluvial aquifer is not a reliable source of ground water due to limited areal extent. Production of fractured bedrock wells in USVI has met limited success, with very low sustainable yields of less than 1.0 liter per second (L/s). Although the Kingshill aquifer does not have great water quality or production, it is the best of scarce ground water resources on the island.

In 1990, Tahal Consulting Engineers Ltd on behalf of VIALCO completed an assessment of potable ground water at the Site. This evaluation of two test wells (V-1 and V-2), drilled to 100 and 120 feet in the northeastern portion of the Site, indicated that there is a sufficient fresh water supply for approximately 110,000 gallons per day (gpd) at the Site and that the ground water quality in the aquifer at the Site was better than expected [TAHAL, 1990]. Further evaluation of aquifer characteristics, which included installation of ten additional wells (V-3 through V-12) and a pumping test in the northeastern portion of the Site, estimated a production level of 432,000 gpd of good-quality fresh water from the wells. The wells ranged in depth from 130 to 175 feet and were completed in limestone and marl. Well yields for nine of the ten wells ranged from 40 to 50 gallons per minute (gpm). Specific conductance upon drilling ranged from 1,200 to 2,400 micromhos per centimeter (µmhos/cm) and dropped significantly upon development and pumping [Bioimpact, 1991]. These wells are not known to have been used except as irrigation for the north slope of RMA in the late 1990s [SSPAI, 2010].

There are numerous inactive well fields located within the Site vicinity, the closest being the Fairplain well field to the west and the Barren Spot well field to the northeast. The chloride concentrations in the northern portion of the Site (generally 100 mg/L to 1,000 mg/L) are similar to those found in public supply wells that have been used for potable water withdrawal. For instance, Fairplain Well 6 showed chloride concentrations ranging from 258 mg/L to 540 mg/L during periodic monitoring by USGS from 1987 to 2001, and Barren Spot Well 7 showed chloride at 288 to 722 mg/L during the 1960s. USGS has reported that the Kingshill aquifer in St. Croix's south-central coast area is subject to industrial contamination or to saltwater intrusion if pumped heavily, and the island has transitioned largely to seawater desalination in recent

years. Although the public-supply wells are currently inactive, they are available for future use or emergency purposes. In addition, the aquifer is still used as a source of private potable water within 4 miles of the Site. Community supply wells serving the Pepper Tree Terrace and Mutual Homes housing complexes are located between 2 to 3 miles northeast and 3 to 4 miles northwest of the Site sources, respectively.

4 Analytical Results

The analytical results for the September 2011 EPA sampling event are presented in this section. The TCL organics results (VOCs, SVOCs, and Aroclors) did not show elevated concentrations in the on-site sources or pathways and are not included further in the discussion. Tables 10 through 16 present a complete set of the organic analytical results, separated according to sample type.

The inorganics results and radiological results, as well as chloride where applicable, are discussed below according to area of concern. Table 17 presents the minimum and maximum results for pH, arsenic, chromium, mercury, selenium, and vanadium within each area of concern and according to matrix (solid and aqueous). Tables 18 through 28 present pH values and the complete EPA-DESA data set, including inorganics, chloride, TOC, and grain size. Figures 6 through 10 present the arsenic, chromium, mercury, selenium, and vanadium results according to sample location type. Figure 11 presents the chloride results.

Tables 29 through 36 present the radiological screening results from the field investigation, while Figures 12 through 17 present the spatial distribution of the radiological screening results. Tables 37 through 43 present the radiological laboratory results, while Figures 18 and 19 show the spatial distribution of radiological laboratory results for background and on-site areas, respectively. The radiological screening and laboratory analytical results are discussed in further detail in the EPA report titled *Radiological Assessment Report, St. Croix Alumina (Renaissance Park) Site, St. Croix, U.S. Virgin Islands,* dated May 2012, which is included as Appendix E.

The gamma spectroscopy results for Th-232, Ra-226, and U-238 presented in this report were estimated using other radioisotopes with the assumption of secular equilibrium. The gamma spectroscopy results for Ra-228 presented in this report were estimated using the actinium-228 energy peak. Since the isotopic analyses by alpha spectroscopy are generally more accurate than the gamma spectroscopy analyses, only Ra-226 and Ra-228 results were evaluated from the gamma spectroscopy analyses along with the thorium and uranium alpha spectroscopy analyses.

The electronic files for the laboratory analytical results, including electronic data deliverables, are included on the data disc in Appendix F.

4.1 Background Soil

Inorganics:

EPA analyzed eight background soil samples (including one environmental duplicate) for TAL Metals. Surface soil samples BG-S01 through BG-S06 were collected from the 0- to 6-inch depth interval in the northeastern portion of the Site. Soil sample BG-SS02 was collected at the same location as BG-S02 from a depth of 16 inches bgs, which was the maximum auger refusal depth in the northeastern portion of the Site. Subsurface soil sample BG-S16A for TAL Metals analysis

was collected at a depth of 3.5 ft bgs from an area near the WWTP west of the Site. As shown below, the concentrations of Site-related contaminants were low relative to red mud and ash waste samples. Table 18 presents the metals results for background soil samples.

- Aluminum, iron, and sodium concentrations in background soil samples ranged from 3,100 to 30,000 mg/kg; 3,400 to 30,000 mg/kg; and 130 to 890 mg/kg, respectively.
- Arsenic was detected at concentrations ranging from 2.6 to 5.0 mg/kg in the northeastern background soil samples, and at 2.9 mg/kg in sample BG-S16A.
- Chromium was detected at concentrations ranging from 8.2 to 48 mg/kg in the northeastern background soil samples, and at 28 mg/kg in sample BG-S16A.
- Mercury concentrations in the northeastern background soil samples ranged from non-detect (three samples) to 0.128 mg/kg (this value was qualified for potential high bias). Mercury was not detected in sample BG-S16A.
- Vanadium was detected at concentrations ranging from 10 to 64 mg/kg in the northeastern background soil samples, and at 110 mg/kg in the background subsurface soil sample.
- Selenium, antimony, cadmium, and silver were not detected in any of the background soil samples.

Radiological Isotopes:

EPA analyzed 12 background soil samples (including one laboratory duplicate) for radium, thorium, and uranium isotopes. Surface soil samples BG-S01 and BG-S07 through BG-S15 were collected from the 0- to 6-inch depth interval in the northeastern portion of the Site. Sample BG-S16A for radiological analyses was collected from the 0- to 6-inch depth interval from the area near the WWTP west of the Site.

- Ra-226 results ranged from 0.03 to 0.57 pCi/g in the background soil samples, with an average result of 0.28 pCi/g.
- Ra-228 results ranged from 0.03 to 0.74 pCi/g in the background soil samples, with an average result of 0.34 pCi/g.
- Th-230 results ranged from 0.15 to 0.86 pCi/g in the background soil samples, with an average result of 0.46 pCi/g.
- Th-232 results ranged from 0.04 to 0.73 pCi/g in the background soil samples, with an average result of 0.36 pCi/g.

- U-234 results ranged from 0.04 to 0.33 pCi/g in the background soil samples, with an average result of 0.23 pCi/g.
- U-235 results ranged from 0.00 to 0.06 pCi/g in the background soil samples, with an average result of 0.02 pCi/g.
- U-238 results ranged from 0.12 to 0.34 pCi/g in the background soil samples, with an average result of 0.23 pCi/g.

4.2 Waste Materials

The contaminants of concern in the red mud waste deposited in both waste disposal areas (RMA and RMB), as well as the FBS, include arsenic, chromium, mercury, selenium, and vanadium, as well as antimony, cadmium, and silver. The red mud waste also contains elevated concentrations of aluminum, iron, and sodium. Radiological contaminants of potential concern include the isotopes of radium, thorium and uranium including Ra-226, Ra-228, Th-230, Th-232, U-234, U-235, and U-238. The primary radiological contaminant at the Site is associated with the Th-232 decay chain.

The contaminants of concern in the waste ash deposited in ADP are arsenic, mercury, and selenium, as well as antimony and cadmium. The ash contains elevated concentrations of sodium, but does not contain elevated levels of aluminum or iron. The chromium and vanadium concentrations in the ash samples were comparable to background soil concentrations. The radiological contaminants of potential concern in waste ash deposited in the ADP include the isotopes of radium, thorium, and uranium and were found to occur at levels that are one to two orders of magnitude lower than those observed in source areas RMA, RMB, and FBS.

4.2.1 Red Mud Disposal Area A

The EPA sampling team collected surface and subsurface waste samples consisting of red mud from the RMA pile. Field pH readings for the RMA red mud samples indicated pH values ranging from 9.45 to 12.52. The results confirm that the red mud waste material in RMA contains arsenic, chromium, mercury, selenium and vanadium, as well as antimony, cadmium, and silver. The analytical results confirm that radioisotopes are present above background in the red mud samples and that Th-232 and Ra-228 are the most prolific isotopes in the waste material.

Inorganics:

EPA analyzed 21 surface waste samples (including one environmental duplicate) and 20 subsurface waste samples (including one environmental duplicate) from RMA for TAL Metals. The surface waste samples were collected from the 0- to 3-inch depth interval, and the depths of subsurface samples ranged from > 2 ft bgs to 8 ft bgs. All waste samples collected from RMA consisted of red mud. Table 19 presents the pH and metals results for RMA waste samples.

- Aluminum, iron, and sodium concentrations in the red mud samples collected from RMA ranged from 36,000 to 140,000 mg/kg; 170,000 to 380,000 mg/kg; and 4,400 to 95,000 mg/kg, respectively.

- Arsenic was detected in all waste samples collected from RMA, at concentrations ranging from 3.6 to 16 mg/kg in surface samples and 3.3 to 15 mg/kg in subsurface samples.

- Chromium was detected in all waste samples collected from RMA, at concentrations ranging from 280 to 870 mg/kg in surface samples and 250 to 1,500 mg/kg in subsurface samples.

- Mercury was detected in all waste samples collected from RMA, at concentrations ranging from 0.138 to 0.422 mg/kg in surface samples and 0.076 to 0.513 mg/kg in subsurface samples.

- Selenium was detected in nine surface waste samples collected from RMA, at concentrations ranging from 2.6 to 16 mg/kg. Selenium was not detected in subsurface samples from RMA.

- Vanadium was detected in all waste samples collected from RMA, at concentrations ranging from 490 to 1,300 mg/kg in surface samples and 470 to 790 mg/kg in subsurface samples.

- Antimony was detected at concentrations of 3.1 mg/kg in one surface sample and 3.1 to 7.4 mg/kg in four subsurface samples collected from RMA. Cadmium was detected at concentrations ranging from 0.35 to 1.6 mg/kg in seventeen surface samples and 0.9 to 1.7 mg/kg in five subsurface samples collected from RMA. Silver was detected at concentrations ranging from 0.58 to 1.6 mg/kg in seventeen surface samples and 0.9 to 1.3 mg/kg in five subsurface samples collected from RMA.

Radiological Isotopes:

EPA analyzed 23 surface waste samples (including one environmental duplicate) and 20 subsurface waste samples (including one environmental duplicate) from RMA for radium, thorium, and uranium isotopes. The surface waste samples were collected from the 0- to 3-inch depth interval, and the depths of subsurface samples ranged from > 2 ft bgs to 8 ft bgs. All waste samples collected from RMA consisted of red mud.

- Ra-226 and Ra-228 results for the RMA waste samples ranged from 1.6 to 6.7 pCi/g and 10 to 24 pCi/g, respectively. The sum of radium (i.e., sum of Ra-226 and Ra-228 with background subtracted) in the samples ranged from approximately 11 to 27 pCi/g.

- Th-230 and Th-232 results for the RMA waste samples ranged from approximately 1 to 6 pCi/g and 5 to 22 pCi/g, respectively. The sum of thorium (i.e., sum of Th-230 and Th-

232 with background subtracted) in the samples ranged from approximately 6 to 25 pCi/g.

- U-234 results for the RMA waste samples ranged from 1.2 to 6.5 pCi/g, U-235 results ranged from non-detect to 0.30 pCi/g, and U-238 results ranged from 1.3 to 5.9 pCi/g.

4.2.1.1 RMA Depositional Area

The EPA sampling team collected surface sediment/waste samples consisting of red mud from RMA Depositional Area. Field pH readings for the RMAD samples ranged from 9.84 to 10.48, with the exception of a pH reading of 7.52 in sample RMA-SD61. The results confirm that the waste material in RMAD contains arsenic, chromium, mercury, selenium and vanadium, as well as antimony, cadmium, and silver. The analytical results confirm that radioisotopes are present above background and that Th-232 and Ra-228 are the most prolific isotopes.

Inorganics:

EPA analyzed seven surface sediment/waste samples (including one environmental duplicate) from RMAD for TAL Metals. The samples collected in this area consisted of red mud from the 0- to 6-inch depth interval. Table 20 presents the metals results for the RMAD samples.

- Aluminum, iron, and sodium concentrations in samples collected from RMAD ranged from 22,000 to 47,000 mg/kg, 130,000 to 380,000 mg/kg, and 1,100 to 21,000 mg/kg, respectively.

- Arsenic was detected at elevated concentrations in all waste samples collected from RMAD, at concentrations ranging from 7.8 to 18 mg/kg.

- Chromium was detected at elevated concentrations in all waste samples collected from RMAD, at concentrations ranging from 180 to 410 mg/kg.

- Mercury was detected at elevated concentrations in all waste samples collected from RMAD, at concentrations ranging from 0.137 to 0.469 mg/kg.

- Selenium was detected at elevated concentrations in six of seven waste samples collected from RMAD, at concentrations ranging from 2.3 to 3.7 mg/kg.

- Vanadium was detected at elevated concentrations in all waste samples collected from RMAD, at concentrations ranging from 400 to 980 mg/kg.

- Antimony was detected in all waste samples collected from RMAD, at concentrations ranging from 3.6 to 10 mg/kg. Cadmium was detected in four of seven waste samples collected from RMAD, at concentrations ranging from 0.34 to 0.61 mg/kg. Silver was detected in all waste samples collected from RMAD, at concentrations ranging from 0.61 to 1.3 mg/kg.

Radiological Isotopes:

EPA analyzed seven surface sediment/waste samples (including one environmental duplicate) from RMAD for radium, thorium, and uranium isotopes. The waste samples collected in this area consisted of red mud from the 0- to 6-inch depth interval.

- Ra-226 and Ra-228 results for the RMAD sediment/waste samples ranged from 0.8 to 3.1 pCi/g and 5 to 11 pCi/g. The sum of radium (i.e., sum of Ra-226 and Ra-228 with background subtracted) in the samples ranged from approximately 5 to 14 pCi/g.

- Th-230 and Th-232 results for the RMAD sediment/waste samples ranged from 0.6 to 1.8 pCi/g and 4 to 10 pCi/g, respectively. The sum of thorium (i.e., sum of Th-230 and Th-232 with background subtracted) in the samples ranged from approximately 4 to 11 pCi/g.

- U-234 results for the RMAD sediment/waste samples ranged from 0.5 to 1.5 pCi/g, U-235 results ranged from non-detect to 0.2 pCi/g, and U-238 results ranged from 0.5 to 1.5 pCi/g.

4.2.2 Red Mud Disposal Area B

During the September 2011 sampling event, EPA collected surface and subsurface waste samples consisting of red mud from RMB. Field pH readings for the RMB waste samples ranged from 8.06 to 12.59. The results confirm that the red mud waste material in RMB contains arsenic, chromium, mercury, selenium and vanadium, as well as antimony, cadmium, and silver. The radiological results indicate that the red mud waste material in RMB contains isotopes of radium (Ra-228), thorium (Th-230, Th-232), and uranium (U-234, U-235, U-238).

Inorganics:

EPA analyzed 13 surface waste samples and 9 subsurface waste samples (including one environmental duplicate) from RMB for TAL Metals. The surface waste samples were collected from the 0- to 3-inch depth interval, and the depths of subsurface samples ranged from 3 ft bgs to 10 ft bgs. All waste samples collected from RMB consisted of red mud. Table 21 presents the metals results for RMB waste samples. Table 21 presents the metals results for RMA waste samples.

- Aluminum, iron, and sodium concentrations in waste samples collected from RMB ranged from 18,000 to 150,000 mg/kg; 67,000 to 490,000 mg/kg; and 630 to 70,000 mg/kg, respectively.

- One sample, RMB-WST24A, indicated non-detect results for arsenic, mercury, and selenium, and low concentrations for chromium (16 mg/kg) and vanadium (37 mg/kg).

- Arsenic was detected in all other waste samples collected from RMB, at concentrations ranging from 6 to 21 mg/kg in surface samples and 7.4 to 17 mg/kg in subsurface samples.

- Chromium was detected in all other waste samples collected from RMB at elevated concentrations ranging from 250 to 1,800 mg/kg in surface samples and 180 to 970 mg/kg in subsurface samples.

- Vanadium was detected in all other waste samples collected from RMB, at elevated concentrations ranging from 490 to 1,300 mg/kg in surface samples and 470 to 790 mg/kg in subsurface samples.

- Mercury was detected at concentrations ranging from 0.045 to 0.348 mg/kg in nine surface samples and 0.055 to 0.075 mg/kg in three subsurface samples collected from RMB.

- Selenium was detected at a concentration of 3.1 mg/kg in one surface waste sample collected from RMB. Selenium was not detected in subsurface samples from RMB.

- Antimony was detected in four surface waste samples collected from RMB, at concentrations of 3.3 to 7.6 mg/kg. Cadmium was detected in four surface waste samples collected from RMB, at concentrations of 0.5 to 3.8 mg/kg. Antimony and cadmium were not detected in subsurface samples from RMB. Silver was detected at concentrations ranging from 0.73 to 3.1 mg/kg in six surface samples and 1.6 mg/kg in one subsurface sample collected from RMB.

Radiological Isotopes:

EPA analyzed 13 surface waste samples and 9 subsurface waste samples (including one environmental duplicate) from RMB for gamma spectroscopy and radiological isotope analyses for radium, thorium and uranium. The surface waste samples were collected from the 0- to 3-inch depth interval, and the depths of subsurface samples ranged from 3 ft bgs to 10 ft bgs. All waste samples collected from RMB consisted of red mud.

- Ra-226 and Ra-228 results for the RMB waste samples ranged from 0.9 to 9 pCi/g and 7 to 25 pCi/g, respectively. The sum of radium (i.e., sum of Ra-226 and Ra-228 with background subtracted) in the samples ranged from approximately 8 to 29 pCi/g.

- Th-230 and Th-232 results for the RMB waste samples ranged from 1.1 to 9 pCi/g and 6 to 21 pCi/g, respectively. The sum of thorium (i.e., sum of Th-230 and Th-232 with background subtracted) in the samples ranged from approximately 7 to 25 pCi/g.

- U-234 results for the RMB waste samples ranged from 1.1 to 6.3 pCi/g, U-235 results ranged from non-detect to 0.5 pCi/g, and U-238 results ranged from 0.8 to 7 pCi/g.

4.2.3 Ash Disposal Pond

The EPA team collected surface and subsurface waste samples consisting of ash from ADP. Field pH readings for the ADP waste samples ranged from 6.83 to 10.17. The results confirm that the ash waste material in ADP contains arsenic, mercury, and selenium, as well as antimony and cadmium. EPA also collected solid (sediment) and aqueous (surface water) samples for TAL metals and mercury analysis at the water's edge in ADP. The results confirm the presence of arsenic and mercury in solid samples and arsenic in the aqueous samples.

Inorganics:

EPA analyzed two surface waste samples and two subsurface waste samples (including one environmental duplicate) from ADP for TAL Metals. The surface waste samples were collected from the 0- to 3-inch depth interval, and the depth of the duplicate subsurface samples was 4 ft bgs. All waste samples collected from ADP consisted of ash. Table 22 presents the metals results for ADP waste samples.

- Aluminum, iron, and sodium concentrations in waste samples collected from ADP ranged from 3,900 to 16,000 mg/kg; 5,900 to 27,000 mg/kg; and 7,000 to 27,000 mg/kg, respectively.

- Arsenic was detected in all waste samples collected from ADP, at concentrations of 30 and 35 mg/kg in the surface samples and 5.6 and 13 mg/kg in the duplicate subsurface samples.

- Mercury was detected in the surface waste samples collected from ADP, at concentrations of 0.094 and 0.218 mg/kg, but was not detected in the duplicate subsurface samples.

- Selenium was detected in all waste samples collected from ADP, at concentrations of 8.9 and 10 mg/kg in the surface samples and 10 and 11 mg/kg in the duplicate subsurface samples.

- Chromium and vanadium were detected in the waste samples collected from ADP, but at relatively low concentrations ranging from 7.3 to 23 mg/kg and 22 to 99 mg/kg, respectively. These concentrations are comparable to the background soil concentrations presented in Section 4.2.

- Antimony (4.0 and 4.5 mg/kg) and cadmium (0.41 and 0.57 mg/kg) were detected in the surface waste samples collected from ADP, but were not detected in the subsurface samples. Silver was not detected in the waste samples collected from ADP.

Radiological Isotopes:

EPA analyzed two surface waste samples, three subsurface waste samples (including one environmental duplicate), and one sediment sample from ADP for gamma spectroscopy and radiological isotope analyses for radium, thorium and uranium. The surface waste samples were collected from the 0- to 3-inch depth interval, and the depth of the duplicate subsurface samples was 4 ft bgs. All waste samples collected from ADP consisted of ash.

- Ra-226 and Ra-228 results for the ADP waste and sediment samples ranged from 0.6 to 1.6 pCi/g and 0.7 to 1.3 pCi/g, respectively. The sum of radium (i.e., sum of Ra-226 and Ra-228 with background subtracted) in the samples ranged from approximately 0.6 to 1.6 pCi/g.

- Th-230 and Th-232 results for the ADP waste and sediment samples ranged from 0.6 to 1.9 pCi/g and approximately 1 to 1 pCi/g, respectively. The sum of thorium (i.e., sum of Th-230 and Th-232 with background subtracted) in the samples ranged from approximately 1 to 2.5 pCi/g.

- U-234 results for the ADP waste and sediment samples ranged from 0.6 to 1.5 pCi/g, U-235 results ranged from non-detect to 0.1 pCi/g, and U-238 results ranged from 0.6 to 1.4 pCi/g.

4.2.4 Former Bauxite Storage Shed

EPA collected surface waste samples consisting of red mud from FBS and from an overland migration pathway behind the shed. Field pH readings for the FBS waste samples ranged from 9.02 to 10.93. The inorganic results show that the red mud waste material at the surface of the FBS pile and running off the pile contains arsenic, chromium, mercury, selenium, and vanadium, as well as antimony, cadmium, and silver. The radiological results of surface waste samples collected from the FBS pile indicate that isotopes of radium (Ra-228), thorium (Th-230, Th-232), and uranium (U-234, U-235, U-238) are present in the waste material.

Inorganics:

EPA analyzed four surface waste samples from FBS for TAL Metals. Three samples were collected from the 0- to 3-inch depth interval of the waste pile in the shed, and one sample was collected from the 0- to 3-inch depth interval of the drainage pathway south of the shed. All waste samples collected from FBS consisted of red mud. Table 23 presents the metals results for FBS waste samples.

- Aluminum, iron, and sodium concentrations in the red mud samples collected from FBS ranged from 68,000 to 100,000 mg/kg; 62,000 to 220,000 mg/kg; and 5,100 to 110,000 mg/kg, respectively.

- Arsenic was detected in the FBS waste pile samples at concentrations ranging from 12 to 47 mg/kg and in the drainage pathway sample at 6.3 mg/kg.

- Chromium was detected in the FBS waste pile samples at concentrations ranging from 140 to 240 mg/kg and in the drainage pathway sample at 99 mg/kg.

- Mercury was detected in the FBS waste pile samples at concentrations ranging from 0.136 to 0.236 mg/kg and in the drainage pathway sample at 0.098 mg/kg.

- Selenium was detected in the FBS waste pile samples at concentrations ranging from 2.4 to 3.2 mg/kg, but was not detected in the drainage pathway sample.

- Vanadium was detected in the FBS waste pile samples at concentrations ranging from 460 to 660 mg/kg and in the drainage pathway sample at 180 mg/kg.

- Antimony was detected in two FBS waste pile samples at concentrations of 4.1 and 6.0 mg/kg. Cadmium was detected in the FBS waste pile samples at concentrations ranging from 0.56 to 0.87 mg/kg and in the drainage pathway sample at 0.72 mg/kg. Silver was detected in the FBS waste pile samples at concentrations ranging from 0.81 to 1.2 mg/kg. Antimony and silver were not detected in the drainage pathway sample.

Radiological Isotopes:

EPA collected four surface waste samples from FBS for gamma spectroscopy and radiological isotope analyses for radium, thorium and uranium. Three samples were collected from the 0- to 3-inch depth interval of the waste pile in the shed, and one sample was collected from the 0- to 3-inch depth interval of the drainage pathway south of the shed. All waste samples collected from FBS consisted of red mud.

- Ra-226 and Ra-228 results for the FBS waste samples ranged from 1.0 to 2.1 pCi/g and 5 to 10 pCi/g, respectively. The sum of radium (i.e., sum of Ra-226 and Ra-228 with background subtracted) in the FBS waste pile samples ranged from approximately 7 to 12 pCi/g, and the sum of radium in the drainage pathway sample was 5.1 pCi/g.

- Th-230 and Th-232 results for the FBS waste samples ranged from 0.9 to 2.3 pCi/g and 4 to 10 pCi/g, respectively. The sum of thorium (i.e., sum of Th-230 and Th-232 with background subtracted) in the FBS waste pile samples and drainage pathway sample ranged from approximately 5 to 12 pCi/g.

- U-234 results for the FBS waste samples ranged from 0.9 to 2.6 pCi/g, U-235 results ranged from non-detect to 0.1 pCi/g, and U-238 results ranged from 0.7 to 2.4 pCi/g.

4.3 Surface Water/Sediment

EPA collected a total of 52 surface water samples and 52 sediment samples (the totals include environmental duplicate samples). Two of the surface water samples were collected from RMA. Sample SW-RMA-WST12 was collected from the ponded water at the top of the pile near waste sample location RMA-WST12. Sample RMA-SW57 was collected from the runoff flowing off the pile during a rainstorm on September 20, 2011. Table 24 presents the metals and chloride results for surface water samples, including a comparison to Ambient Water Quality Criteria (AWQC), as expressed by the national recommended Criterion Continuous Concentration (CCC) for protection of aquatic life in saltwater promulgated under Section 304(a)(1) of the Clean Water Act. Table 25 presents the metals results for sediment samples.

4.3.1 Background Surface Water/Sediment Sample Locations

Inorganics:

EPA analyzed four surface water samples designated as background for TAL Metals. Another sample collected from the intake channel on the east side of Alucroix Channel is also considered to represent background conditions. Surface water sample location BG-SW53, which showed elevated concentrations of arsenic, chromium, and vanadium compared to other background locations, was collected along the coast west of the site and near the municipal landfill. Therefore, it is unknown if the elevated concentrations at this location are Site-related.

- Aluminum, iron, and sodium concentrations in the background surface water samples ranged from 460 to 28,000 µg/L; 640 to 51,000 µg/L; and 98,000 to 8,400,000 µg/L, respectively.
- Arsenic was detected at a concentration of 85 µg/L in surface water sample BG-SW53, but was not detected in the other background surface water samples.
- Chromium was detected at concentrations of 7.7 and 75 µg/L in surface water samples BG-SW55 and BG-SW53, respectively, but was not detected in the other background surface water samples.
- Vanadium was detected in three of four background surface water samples, at concentrations ranging from 22 to 270 µg/L.
- Mercury, selenium, antimony, cadmium, and silver were not detected in the background surface water samples.

EPA analyzed five background sediment samples for TAL Metals, including sample ACC-SD52.

- Aluminum, iron, and sodium concentrations in the background sediment samples ranged from 3,500 to 17,000 mg/kg; 4,500 to 24,000 mg/kg; and 1,400 to 4,300 mg/kg, respectively.

- Arsenic was detected in the background sediment samples at concentrations ranging from 1.2 to 5.5 mg/kg.
- Chromium was detected in the background sediment samples at concentrations ranging from 9.6 to 27 mg/kg.
- Vanadium was detected in the background sediment samples at concentrations ranging from 18 to 110 mg/kg.
- Mercury, selenium antimony, cadmium, and silver were not detected in the background sediment samples.

Radiological Isotopes:

EPA did not analyze the background surface water or sediment samples for gamma spectroscopy or radiological isotope analyses, nor did EPA perform radiological screening in this area.

4.3.2 Red Mud Disposal Area A

Inorganics:

EPA analyzed one surface water runoff sample (RMA-SW57) from RMA for TAL Metals. The sample was visibly laden with red mud and its pH was measured at 10.55.

- Aluminum, iron, and sodium concentrations in the surface water runoff sample were 280,000 µg/L; 500,000 µg/L; and 1,200,000 µg/L, respectively.
- Arsenic was detected at a concentration of 150 µg/L in the surface water runoff sample.
- Chromium was detected at a concentration of 2,900 µg/L in the runoff sample.
- Selenium was detected at a concentration of 54 µg/L in the runoff sample.
- Vanadium was detected at a concentration of 5,200 µg/L in the runoff sample.
- Mercury was detected at a concentration of 0.710 µg/L in the runoff sample.
- Antimony, cadmium, and silver were not detected in the surface water runoff sample.

Radiological Isotopes:

EPA analyzed surface water runoff sample RMA-SW57 and ponded water sample SW-RMA-WST12 from RMA for gamma spectroscopy and radiological isotope analyses for radium, thorium, and uranium. The pH of sample RMA-SW57 was measured at 10.55 and the pH of sample SW-RMA-WST12 was measured at 10.43.

- Ra-226 and Ra-228 results for runoff sample RMA-SW57 were 6 and 21 pCi/L, respectively. The sum of radium (i.e., sum of Ra-226 and Ra-228) in the sample was approximately 27 pCi/L.

- Ra-226 and Ra-228 results for ponded water sample SW-RMA-WST12 were 0.5 and 5 pCi/L, respectively. The sum of radium (i.e., sum of Ra-226 and Ra-228) in the sample was approximately 6 pCi/L.

- Th-230 and Th-232 results for runoff sample RMA-SW57 were 0.54 and 3.4 pCi/L, respectively.

- Th-230 and Th-232 results for ponded water sample SW-RMA-WST12 were non-detect and 0.31 pCi/L, respectively.

- U-234, U-235, and U-238 results for runoff sample RMA-SW57 were 5.1 pCi/L, non-detect, and 3.5 pCi/L, respectively.

- U-234, U-235, and U-238 results for ponded water sample SW-RMA-WST12 were 5 pCi/L, non-detect, and 2.5 pCi/L, respectively.

4.3.3 Red Mud Settling Pond

Inorganics:

EPA analyzed four surface water samples (including one environmental duplicate) from RMS for TAL Metals. Red mud was visually observed at all sample locations. Water was not present at location RMS-SW47 during sample collection.

- Aluminum, iron, and sodium concentrations in surface water samples collected from RMS ranged from 10,000 to 94,000 µg/L; 1,200 to 52,000 µg/L; and 460,000 to 2,800,000 µg/L, respectively.

- Arsenic was detected at concentrations ranging from 29 to 160 µg/L in the surface water samples collected from RMS.

- Chromium was detected at concentrations ranging from 430 to 16,000 µg/L in the surface water samples collected from RMS.

- Selenium was detected at concentrations ranging from 55 to 650 µg/L in three surface water samples collected from RMS; sample RMS-SW46 was non-detect.

- Vanadium was detected at concentrations ranging from 1,300 to 4,500 µg/L in the surface water samples collected from RMS.

- Mercury, antimony, cadmium, and silver were not detected in the surface water samples collected from RMS.

EPA analyzed five sediment samples (including one environmental duplicate) from RMS for TAL Metals. Red mud was visually observed in all RMS sediment samples.

- Aluminum, iron, and sodium concentrations in the RMS sediment samples ranged from 38,000 to 74,000 mg/kg; 120,000 to 340,000 mg/kg; and 16,000 to 33,000 mg/kg, respectively.

- Arsenic was detected in the RMS sediment samples at concentrations ranging from 7 to 15 mg/kg.

- Chromium was detected in the RMS sediment samples at concentrations ranging from 360 to 480 mg/kg.

- Mercury was detected in the RMS sediment samples at concentrations ranging from 0.14 to 0.338 mg/kg.

- Selenium was detected at a concentration of 2.7 mg/kg in sediment sample RMS-SD47, but was not detected in the other RMS sediment samples.

- Vanadium was detected in the RMS sediment samples at concentrations ranging from 370 to 1,100 mg/kg.

- Cadmium was detected in the RMS sediment samples at concentrations ranging from 0.68 to 4.4 mg/kg. Antimony and silver were not detected in the RMS sediment samples.

Radiological Isotopes:

EPA analyzed one surface water sample (RMS-SW45) and one sediment sample (RMS-SD45) from RMS for gamma spectroscopy and radiological isotope analyses for radium, thorium, and uranium.

- Ra-226 and Ra-228 results for surface water sample RMS-SW45 were 1.4 and 16 pCi/L, respectively. The sum of radium (i.e., sum of Ra-226 and Ra-228) in the sample was approximately 18 pCi/L.

- Ra-226 and Ra-228 results for sediment sample RMS-SD45 were 3.3 and 12 pCi/g, respectively. The sum of radium (i.e., sum of Ra-226 and Ra-228 with background subtracted) in the sample was approximately 15 pCi/g.

- Th-230 and Th-232 results for surface water sample RMS-SW45 were 0.54 and 1.66 pCi/L, respectively.

- Th-230 and Th-232 results for sediment sample RMS-SD45 were 2.0 and 10 pCi/g, respectively. The sum of thorium (i.e., sum of Th-230 and Th-232 with background subtracted) in the sample was approximately 11 pCi/g.
- U-234, U-235, and U-238 results for surface water sample RMS-SW45 were 9 pCi/L, 0.5 pCi/L, and 5 pCi/L, respectively.
- U-234, U-235, and U-238 results for sediment sample RMS-SD45 were 2.0 pCi/g, non-detect, and 1.8 pCi/g, respectively.

4.3.4 Upper Cooling Pond

Inorganics:

EPA analyzed eight surface water samples from UCP for TAL Metals. Red mud was visually observed at all sample locations.

- Aluminum, iron, and sodium concentrations in surface water samples collected from UCP ranged from 230 to 74,000 µg/L; 110 to 29,000 µg/L; and 9,100,000 to 13,000,000 µg/L, respectively.
- Arsenic was detected in seven of eight surface water samples collected from UCP, at concentrations ranging from 9.8 to 27 µg/L.
- Chromium was detected at concentrations ranging from 150 to 780 µg/L in the surface water samples collected from UCP.
- Selenium was detected at a concentration of 37 µg/L in surface water sample UCP-SW37, but was not detected in the other UCP surface water samples.
- Vanadium was detected at concentrations ranging from 45 to 1,500 µg/L in the surface water samples collected from UCP.
- Mercury, antimony, cadmium, and silver were not detected in the surface water samples collected from UCP.

EPA analyzed eight sediment samples from UCP for TAL Metals. Red mud was visually observed in all UCP sediment samples.

- Aluminum, iron, and sodium concentrations in the UCP sediment samples ranged from 49,000 to 86,000 mg/kg; 44,000 to 180,000 mg/kg; and 13,000 to 60,000 mg/kg, respectively.
- Arsenic was detected in the UCP sediment samples at concentrations ranging from 8.1 to 26 mg/kg.

- Chromium was detected in the UCP sediment samples at concentrations ranging from 220 to 550 mg/kg.
- Mercury was detected in the UCP sediment samples at concentrations ranging from 0.076 to 0.314 mg/kg.
- Vanadium was detected in the UCP sediment samples at concentrations ranging from 330 to 640 mg/kg.
- Cadmium was detected in three of eight UCP sediment samples, at concentrations ranging from 0.97 to 1.3 mg/kg. Silver was detected at a concentration of 1.1 mg/kg in sample UCP-SD38, but was not detected in the other UCP sediment samples.
- Selenium and antimony were not detected in the UCP sediment samples.

Radiological Isotopes:

EPA analyzed two surface water samples and three sediment samples from UCP for gamma spectroscopy and radiological isotope analyses for radium, thorium, and uranium.

- Ra-226 and Ra-228 results for UCP surface water samples ranged from 0.2 to 0.7 pCi/L and 1.0 to 10 pCi/L, respectively. The sum of radium (i.e., sum of Ra-226 and Ra-228) in the samples ranged from approximately 1.2 to 11 pCi/g.
- Ra-226 and Ra-228 results for UCP sediment samples ranged from 0.5 to 3.2 pCi/g and 2.4 to 13 pCi/g, respectively. The sum of radium (i.e., sum of Ra-226 and Ra-228 with background subtracted) in the samples ranged from approximately 2 to 15 pCi/g.
- Th-230 and Th-232 results for UCP surface water samples ranged from non-detect to 0.4 pCi/L and non-detect to 1.8 pCi/L, respectively.
- Th-230 and Th-232 results for UCP sediment samples ranged from 0.9 to 2.7 pCi/g and 3 to 10 pCi/g, respectively. The sum of thorium (i.e., sum of Th-230 and Th-232 with background subtracted) in the samples ranged from approximately 3 to 12 pCi/g.
- U-234 results for UCP surface water samples ranged from 1.2 to 1.9 pCi/L, U-235 results ranged from non-detect to 0.3 pCi/L, and U-238 results ranged from 1.0 to 1.4 pCi/L.
- U-234 results for UCP sediment samples ranged from 2.8 to 3.3 pCi/g, U-235 results ranged from approximately 0.2 to 0.2 pCi/g, and U-238 results ranged from 2.5 to 2.8 pCi/g.

4.3.5 Lower Cooling Pond

Inorganics:

EPA analyzed eight surface water samples from LCP for TAL Metals. Red mud was visually observed at sample locations LCP-SW31, LCP-SW32, and LCP-SW33.

- Aluminum, iron, and sodium concentrations in surface water samples collected from LCP ranged from non-detect to 15,000 µg/L; non-detect to 8,700 µg/L; and 3,800,000 to 9,300,000 µg/L, respectively.
- Arsenic was detected at concentrations ranging from 19 to 220 µg/L in the surface water samples collected from LCP.
- Chromium was detected in five of eight surface water samples collected from LCP, at concentrations ranging from 17 to 240 µg/L.
- Selenium was detected at a concentration of 25 µg/L in surface water sample LCP-SW30, but was not detected in the other LCP surface water samples.
- Vanadium was detected at concentrations ranging from 130 to 2,200 µg/L in the surface water samples collected from LCP.
- Mercury, antimony, cadmium, and silver were not detected in the surface water samples collected from LCP.

EPA analyzed eight sediment samples from LCP for TAL Metals. Red mud was visually observed in samples LCP-SD31, LCP-SD32, and LCP-SD33.

- Aluminum, iron, and sodium concentrations in the LCP sediment samples ranged from 9,800 to 95,000 (J) mg/kg; 5,200 to 41,000 (J) mg/kg; and 5,100 to 56,000 (J) mg/kg, respectively.
- Arsenic was detected in the LCP sediment samples at concentrations ranging from 5.2 to 34 (J) mg/kg.
- Chromium was detected in the LCP sediment samples at concentrations ranging from 35 to 570 (J) mg/kg.
- Selenium was detected in two of eight sediment samples collected from LCP, at concentrations of 1.7 mg/kg (LCP-SD28) and 2.9 mg/kg (LCP-SD30).
- Vanadium was detected in the LCP sediment samples at concentrations ranging from 110 to 590 (J) mg/kg.

- Mercury, antimony, cadmium, and silver were not detected in the LCP sediment samples.

Radiological Isotopes:

EPA analyzed one sediment sample (LCP-SD33) from the LCP for gamma spectroscopy and radiological isotope analyses for radium, thorium and uranium. The sample was collected from the 0- to 3-inch depth interval. Red mud was present in the sample. Surface water samples were not collected from the LCP for gamma spectroscopy or radiological isotope analyses.

- Ra-226 and Ra-228 results for sediment sample LCP-SD33 were 0.1 and 0.3 pCi/g, respectively. The sum of radium (i.e., sum of Ra-226 and Ra-228 with background subtracted) in the sample was approximately 0 pCi/g.
- Th-230 and Th-232 results for sediment sample LCP-SD33 were 0.3 and 0.4 pCi/g, respectively. The sum of thorium (i.e., sum of Th-230 and Th-232 with background subtracted) in the sample was approximately 0.4 pCi/g.
- U-234, U-235, and U-238 results for sediment sample LCP-SD33 were 3.7 pCi/g, 0.2 pCi/g, and 3.4 pCi/g, respectively.

4.3.6 West Ditch

Inorganics:

EPA analyzed three surface water samples (including one environmental duplicate) from WES for TAL Metals. Red mud was visually observed at sample location WES-SW22/WES-SW23. Water was not present at location WES-SW25, where red mud was also visually observed.

- Aluminum, iron, and sodium concentrations in surface water samples collected from WES ranged from 310 to 1,200 µg/L; 470 to 1,800 µg/L; and 5,800,000 to 6,900,000 µg/L, respectively.
- Arsenic, chromium, mercury, selenium, vanadium, antimony, cadmium, and silver were not detected in the surface water samples collected from WES.

EPA analyzed four sediment samples (including one environmental duplicate) from WES for TAL Metals. Red mud was visually observed in samples WES-SD22/WES-SD23 and WES-SD25.

- Aluminum, iron, and sodium concentrations in the WES sediment samples ranged from 24,000 to 41,000 mg/kg; 26,000 to 55,000 mg/kg; and 1,100 to 26,000 mg/kg, respectively.

- Arsenic was detected in the WES sediment samples at concentrations ranging from 4.0 to 8.1 mg/kg.
- Chromium was detected in the WES sediment samples at concentrations ranging from 33 to 160 mg/kg.
- Mercury was detected at a concentration of 0.049 mg/kg in sediment sample WES-SD23, but was not detected in duplicate sample WES-SD22 or the other WES sediment samples.
- Vanadium was detected in the WES sediment samples at concentrations ranging from 110 to 210 mg/kg.
- Silver was detected at a concentration of 0.73 mg/kg in sediment sample WES-SD25.
- Selenium, antimony, and cadmium were not detected in the WES sediment samples.

Radiological Isotopes:

EPA did not analyze any surface water or sediment samples from the West Ditch for gamma spectroscopy or radiological isotope analyses. Radiological screening results in the West Ditch were similar to screening results recorded in background areas.

4.3.7 Coastal Mangrove Areas

Inorganics:

EPA analyzed thirteen surface water samples from MAN for TAL Metals. Red mud was visually observed at sample locations MAN-SW17 and MAN-SW20.

- Aluminum, iron, and sodium concentrations in surface water samples collected from MAN ranged from 120 to 24,000 µg/L; non-detect to 28,000 µg/L; and 540,000 to 11,000,000 µg/L, respectively.
- Arsenic was detected in eleven of thirteen MAN surface water samples, at concentrations ranging from 8.0 (J) to 41 µg/L.
- Chromium was detected in five of thirteen MAN surface water samples, at concentrations ranging from 5.6 to 71 µg/L.
- Vanadium was detected in eight of thirteen MAN surface water samples, at concentrations ranging from 20 to 110 µg/L.
- Mercury, selenium antimony, cadmium, and silver were not detected in the surface water samples collected from MAN.

EPA analyzed thirteen sediment samples from MAN for TAL Metals. Red mud was visually observed in samples MAN-SD17 and MAN-SD20.

- Aluminum, iron, and sodium concentrations in the MAN sediment samples ranged from 790 to 34,000 (J) mg/kg; 1,000 to 50,000 mg/kg; and 5,400 to 48,000 (J) mg/kg, respectively.

- Arsenic was detected in the MAN sediment samples at concentrations ranging from 2.8 (J) to 18 mg/kg. Sample MAN-SD19 showed the highest arsenic concentration.

- Chromium was detected in the MAN sediment samples at concentrations ranging from 3.9 to 140 (J) mg/kg. Sample MAN-SD20 near the former west ditch showed the highest chromium concentration.

- Cadmium was detected at a concentration of 0.7 mg/kg in sediment sample MAN-SD19, but was not detected in the other MAN sediment samples.

- Vanadium was detected in the MAN sediment samples at concentrations ranging from 10 to 210 (J) mg/kg. Sample MAN-SD20 near the former west ditch showed the highest vanadium concentration.

- Mercury, selenium, antimony, and silver were not detected in the MAN sediment samples.

Radiological Isotopes:

EPA did not analyze any surface water or sediment samples from the Coastal Mangrove Area for gamma spectroscopy or radiological isotope analyses. Radiological screening results in the West Ditch were similar to screening results recorded in background areas.

4.3.8 Alucroix Channel

Inorganics:

EPA analyzed five surface water samples from the western edge of ACC for TAL Metals. Red mud was not visibly apparent at the ACC sample locations.

- Aluminum was not detected in the surface water samples collected from ACC. Iron and sodium concentrations in ACC surface water samples ranged from non-detect to 140 µg/L and 8,700,000 to 10,000,000 µg/L, respectively.

- Arsenic was detected at concentrations of 8.5 and 11 µg/L in surface water samples ACC-SW01 and ACC-SW07, respectively. Arsenic was not detected in samples ACC-SW04, ACC-SW05, and ACC-SW06.

- Chromium, mercury, selenium, vanadium, antimony, cadmium, and silver were not detected in the surface water samples collected from ACC.

EPA analyzed five sediment samples from the western edge of ACC for TAL Metals. Red mud was not visibly apparent in the ACC sediment samples. The furthest downstream sample at the mouth of the channel (ACC-SD01) showed lower concentrations than the samples collected closer to Site sources.

- Aluminum, iron, and sodium concentrations in the ACC sediment samples ranged from 1,100 to 25,000 mg/kg; 1,100 to 69,000 mg/kg; and 4,100 to 35,000 mg/kg, respectively.
- Arsenic was detected in the ACC sediment samples at concentrations ranging from 2.2 to 12 mg/kg.
- Chromium was detected in the ACC sediment samples at concentrations ranging from 7.0 to 51 mg/kg.
- Mercury was detected at a concentration of 0.062 mg/kg in sediment sample ACC-SD07, but was not detected in the other ACC sediment samples.
- Selenium was detected at a concentration of 3.4 mg/kg in sediment sample ACC-SD05, but was not detected in the other ACC sediment samples.
- Vanadium was detected in the ACC sediment samples at concentrations ranging from 8.2 to 130 mg/kg.
- Antimony (2.4 mg/kg), cadmium (0.48 mg/kg), and silver (1.8 mg/kg) were detected in sediment sample ACC-SD06, but were not detected in the other ACC sediment samples.

Radiological Isotopes:

EPA did not analyze any surface water or sediment samples from Alucroix Channel for gamma spectroscopy or radiological isotope analyses, nor did EPA perform radiological screening in this area.

4.4 Ground Water

The EPA team collected a total of 11 unfiltered ground water samples and 11 filtered ground water samples (each total includes one environmental duplicate sample) from ten existing on-site monitoring wells.

Inorganics:

EPA analyzed unfiltered and filtered ground water samples (including one environmental duplicate for each) from ten on-site monitoring wells for TAL Metals.

- The reported concentrations of calcium, magnesium, manganese, potassium, and chloride confirm the location of the freshwater/saltwater interface in the Kingshill aquifer approximately at the north end of Alucroix Channel and RMB. The wells are categorized as saltwater (GM-19), freshwater/saltwater mixture (G-11, GM-14), or freshwater (G-9, GM-13D, GM-18, GM-22, VW16, VW25, and VW37). The freshwater chemistry in wells GM-18 and GM-22, both of which are screened at least partially in fill above the Lagoonal Clay, is believed to result from a perched water or mounding situation. High sodium concentrations in well GM-22 are indicative of process seawater leaching from the RMB waste material rather than saltwater interface impacts.

- Samples from monitoring well GM-22, which is screened in the Lagoonal Clay and overlying red mud/sand fill material, represent the caustic leachate within and emanating from the red mud. Samples from this well repeatedly show highly elevated pH levels above 12.3 (the most recent reading by EPA was 12.78). Historically, the well has shown elevated concentrations of arsenic, chromium, mercury, selenium, vanadium, aluminum, and fluorides in both unfiltered and filtered samples, with a maximum arsenic concentration of 5,100 µg/L. The samples collected by EPA from well GM-22 had a noticeable yellowish-green color. The results showed arsenic, chromium, mercury, selenium, vanadium, and aluminum at elevated concentrations, with the arsenic concentrations at 2,700 µg/L and 2,800 µg/L in the unfiltered and filtered samples, respectively.

- The sample from well GM-13D indicated the presence of arsenic at 180 µg/L in both the unfiltered and filtered samples. The samples also showed the presence of vanadium at 28 and 27 µg/L, respectively, and a pH of 9.28. This well has been compromised by siltation or some other blockage to the point where only the top few feet of the screened interval is unblocked.

- Two wells that hadn’t been previously sampled for metals showed potential indications of current red mud impacts to the fresh ground water in the upper Kingshill aquifer:

    - Well VW25, located downgradient (south) of RMA and east of the RMS and completed in the upper Kingshill aquifer, showed estimated arsenic concentrations of 17 µg/L and 8.3 µg/L in the unfiltered and filtered samples, respectively. The unfiltered result exceeds the MCL (10 µg/L) and the filtered result is close. Chromium was detected in the unfiltered sample at a concentration of 41 µg/L (below the MCL of 100 µg/L), and vanadium was detected in both samples at concentrations of 77 µg/L and 42 µg/L, respectively (there is no MCL for vanadium). The unfiltered sample also exceeded the secondary MCL for iron (300 µg/L) with a concentration of 940 µg/L.

- The unfiltered sample from well VW37, located along the western edge of RMA and completed in the upper Kingshill aquifer, showed the presence of chromium at 5.1 µg/L and also showed exceedances of the secondary MCLs for aluminum and iron.

- Mercury and selenium were detected only in the ground water samples from monitoring well GM-22.

- Antimony, cadmium, and silver were not detected in any of the ground water samples.

- Some forms of arsenic are more subject to leaching and have greater solubility with increasing pH. The high arsenic concentrations detected in filtered ground water and leachate samples collected at the Site seems to be indicative of these phenomena.

Radiological Isotopes:

EPA analyzed seven unfiltered groundwater samples from on-site monitoring wells for radiological analyses for radium, thorium, and uranium. The analytical results of these analyses indicate the following:

- Ra-226 results ranged from non-detect to 0.3 pCi/L. Ra-228 was not detected.

- Th-230 results ranged from non-detect to 0.2 pCi/L. Th-232 was not detected.

- U-234 results ranged from non-detect to 1.6 pCi/L, U-235 results ranged from non-detect to 0.3 pCi/L, and U-238 results ranged from 0.1 to 1.4 pCi/L.

5 Conclusion

The results of the September 2011 EPA sampling investigation at the Site show that migration of red mud and related contaminants from source areas continues to have an impact on downstream water bodies and ground water in the Kingshill aquifer and overlying units. The contamination poses a potential threat to receptor areas, including mangrove wetland areas, waterbird and endangered/threatened species habitats, fisheries, and fresh ground water in the Kingshill aquifer. The Site conditions and analytical results, as presented in Sections 3 and 4, provide evidence of hazardous substance migration in both the surface water and ground water pathways from on-site disposal areas.

5.1 Source Areas

The uncontained waste material in the four identified sources at the Site showed elevated levels of pH, inorganic contaminants, and radioisotopes. The red mud and runoff water in all three red mud disposal areas generally showed pH ranging from approximately 9.5 to 12.5, compared to background pH levels of approximately 7 to 8.5. The highest observed pH readings (above 12.5) were found in Red Mud Disposal Area A and Red Mud Disposal Area B. The waste material also showed the highest concentrations of inorganic and radiological contaminants of concern. The highest concentrations of vanadium and chromium were observed in the red mud waste from Red Mud Disposal Area A and Red Mud Disposal Area B, and the highest arsenic levels were detected red mud leachate (well GM-22) and ash from the Ash Disposal Pond. The highest activity levels for radioisotopes were found in the red mud waste from Red Mud Disposal Area A and Red Mud Disposal Area B.

5.2 Surface Water Migration Pathway

At the time of the EPA investigation in 2011, approximately 2.5 million gallons per day of process water from desalination and storm water flowed through the cooling ponds. The recent cessation of desalination in 2012 has reduced this flow to include only storm water. The primary overland drainage pathways to surface water at the Site originate from Red Mud Disposal Area A and flow south through the RMA Depositional Area and Red Mud Settling Pond to the Upper Cooling Pond, and subsequently to the Lower Cooling Pond. Overland drainage from Red Mud Disposal Area B discharges north and west to the Upper Cooling Pond and south to the Lower Cooling Pond. The southern drainage pathway is partially fed by a man-made drainage ditch that originates at the Ash Disposal Pond and flows south through areas of exposed red mud within Red Mud Disposal Area B. The Lower Cooling Pond discharges to Alucroix Channel via a permitted discharge outfall and possibly to the coastal mangrove wetland area via culverts observed by EPA.

Historically, the West Ditch also acted as a drainage pathway from Red Mud Disposal Area A directly to the coastal mangrove area; the West Ditch has since been diverted through the Lower Cooling Pond. The drainage pathway from the Former Bauxite Storage Shed is south-southwest to a storm water basin. Water levels in the available monitoring wells also suggest the possibility

of an eastern component to shallow ground water flow from Red Mud Disposal Area B, the Ash Disposal Pond, and the Former Bauxite Storage Shed toward Alucroix Channel.

Aerial photographs and on-site observations show the migration of red mud from the disposal areas throughout past and current on-site drainage pathways. Red mud is clearly present throughout the Red Mud Settling Pond and Upper Cooling Pond, within a large portion of the Lower Cooling Pond, and intermittently within the West Ditch and coastal mangrove wetland areas. The red mud in the West Ditch and coastal mangrove wetland areas is believed to be residual contamination from prior releases. Analytical results for contaminants of concern (pH, arsenic, chromium, mercury, selenium, vanadium, and radioisotopes of radium and thorium) verify the downstream transport of red mud and relative dilution with distance from the sources. Site-related contaminants were detected at concentrations above background throughout the Red Mud Settling Pond and Upper Cooling Pond, and in some areas of the Lower Cooling Pond, West Ditch, Alucroix Channel, and coastal mangrove wetland areas.

The downstream surface impoundments and other water bodies include sensitive environmental receptors that are affected or potentially threatened by contaminant migration from the original source areas. In addition to the coastal mangrove wetland areas, the West Ditch, Lower Cooling Pond, and Alucroix Channel are bordered by mangrove wetlands. The Upper Cooling Pond is also bordered by mangrove wetlands, however, the vegetation along this surface impoundment is sparser than the rest. The coastal area, including the Lower Cooling Pond, provides habitat for fish and waterbirds such as brown pelicans and egrets. The south shore of St. Croix, including the Site and vicinity, is a regularly-used fishery and it provides habitat for federally-designated threatened and endangered species (green, hawksbill, and leatherback sea turtles).

5.3 Ground Water Migration Pathway

The historical and recent ground water data for the Site indicate that site contaminants from on-site disposal areas have had an impact on ground water and pose a threat to the underlying Kingshill aquifer, but the nature and extent of the impacts are not fully understood. The analytical results show approximate order of magnitude changes progressing through red mud leachate in overlying fill, Lagoonal Clay underlying the southern portion of the Site, and the Kingshill aquifer beneath the northern portion of the Site. As shown in previous studies, this aquifer is a viable source of fresh water at the Site despite the presence of the saltwater interface near the head of Alucroix Channel. Additional ground water investigation (i.e., a Remedial Investigation) at the Site is warranted to delineate the extent of the impact of red mud and the location of the saltwater interface, as described in the WESTON/EPA document titled *Ground Water Assessment Summary, St. Croix Alumina (Renaissance Park) Site, St. Croix, U.S. Virgin Islands (RAR),* dated May 2012.

6 References

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Tables

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Soil	BG-S01	BG-S01	17.716810	-64.772851
Soil	BG-S02	BG-S02 BG-SS02	17.715292	-64.770667
Soil	BG-S03	BG-S03	17.714129	-64.770042
Soil	BG-S04	BG-S04	17.713109	-64.772744
Soil	BG-S05	BG-S05 BG-S06	17.711449	-64.768609
Soil	BG-S07	BG-S07	17.714457	-64.775136
Soil	BG-S08	BG-S08	17.715894	-64.774644
Soil	BG-S09	BG-S09	17.717498	-64.773321
Soil	BG-S10	BG-S10	17.719887	-64.771134
Soil	BG-S11	BG-S11	17.716560	-64.769967
Soil	BG-S12	BG-S12	17.714825	-64.772117
Soil	BG-S13	BG-S13	17.713930	-64.773640
Soil	BG-S14	BG-S14	17.714098	-64.770186
Soil	BG-S15	BG-S15	17.711925	-64.769609
Soil	BG-S16	BG-S16A	17.701396	-64.785025
Waste - RMA	RMA-WST01	RMA-WST01A RMA-WST01B RMA-WST01C	17.710319	-64.781653
Waste - RMA	RMA-WST02	RMA-WST02A RMA-WST02B	17.710756	-64.780037
Waste - RMA	RMA-WST03	RMA-WST03A RMA-WST03B	17.711578	-64.779219
Waste - RMA	RMA-WST04	RMA-WST04A RMA-WST04B	17.711981	-64.778093
Waste - RMA	RMA-WST05	RMA-WST05A RMA-WST05B	17.712192	-64.776971
Waste - RMA	RMA-WST06	RMA-WST06A RMA-WST06B	17.711866	-64.776407
Waste - RMA	RMA-WST07	RMA-WST07A RMA-WST07B	17.708664	-64.782059
Waste - RMA	RMA-WST08	RMA-WST08A RMA-WST08B	17.709004	-64.781082
Waste - RMA	RMA-WST09	RMA-WST09A RMA-WST09B	17.708768	-64.779653
Waste - RMA	RMA-WST10	RMA-WST10A RMA-WST10B	17.709291	-64.779345

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Waste - RMA	RMA-WST11	RMA-WST11A RMA-WST11B RMA-WST11C	17.710572	-64.778493
Waste - RMA	RMA-WST12	RMA-WST12A RMA-WST12B SW-RMA-WST12	17.710957	-64.778013
Waste - RMA	RMA-WST13	RMA-WST13A RMA-WST13B	17.711121	-64.776675
Waste - RMA	RMA-WST14	RMA-WST14A RMA-WST14B	17.707132	-64.780853
Waste - RMA	RMA-WST15	RMA-WST15A	17.707278	-64.780044
Waste - RMA	RMA-WST16	RMA-WST16A RMA-WST16B	17.707777	-64.779065
Waste - RMA	RMA-WST17	RMA-WST17A RMA-WST17B	17.708621	-64.777970
Waste - RMA	RMA-WST18	RMA-WST18A RMA-WST18B	17.709368	-64.778327
Waste - RMA	RMA-WST19	RMA-WST19A RMA-WST19B	17.709566	-64.777401
Waste - RMA	RMA-WST20	RMA-WST20A RMA-WST20B	17.710125	-64.776867
Waste - RMA	RMA-WSTR01	RMA-WSTR01A	17.709847	-64.777992
Waste - RMA	RMA-WSTR02	RMA-WSTR02A	17.711343	-64.777487
Runoff from RMA	RMA-SW57	RMA-SW57	17.707899	-64.778905
Waste - RMA Depositional Area	RMA-SD57	RMA-SD57	17.708112	-64.778292
Waste - RMA Depositional Area	RMA-SD58	RMA-SD58	17.706590	-64.780242
Waste - RMA Depositional Area	RMA-SD59	RMA-SD59	17.706091	-64.781179
Waste - RMA Depositional Area	RMA-SD60	RMA-SD60	17.705498	-64.780645
Waste - RMA Depositional Area	RMA-SD61	RMA-SD61	17.704827	-64.780361
Waste - RMA Depositional Area	RMA-SD62	RMA-SD62 RMA-SD63	17.705043	-64.779588

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Waste - RMB	RMB-WST22	RMB-WST22A RMB-WST22B	17.705606	-64.776162
Waste - RMB	RMB-WST23	RMB-WST23A RMB-WST23B RMB-WST23C	17.704882	-64.776239
Waste - RMB	RMB-WST24	RMB-WST24A	17.705667	-64.776629
Waste - RMB	RMB-WST28	RMB-WST28A RMB-WST28B	17.702307	-64.777907
Waste - RMB	RMB-WST29	RMB-WST29A RMB-WST29B	17.702771	-64.776356
Waste - RMB	RMB-WST30	RMB-WST30A RMB-WST30B	17.702497	-64.777150
Waste - RMB	RMB-WST32	RMB-WST32A	17.700086	-64.777896
Waste - RMB	RMB-WST34	RMB-WST34A RMB-WST34B	17.699043	-64.776835
Waste - RMB	RMB-WST36	RMB-WST36A	17.697876	-64.777433
Waste - RMB	RMB-WST37	RMB-WST37A RMB-WST37B	17.698928	-64.773959
Waste - RMB	RMB-WST38	RMB-WST38A	17.699553	-64.774361
Waste - RMB	RMB-WST39	RMB-WST39A RMB-WST39B	17.699200	-64.773148
Waste - RMB	RMB-WST40	RMB-WST40A	17.702728	-64.776792
Waste - ADP	ADP-WST41	ADP-WST41A ADP-WST41B ADP-WST41C	17.701674	-64.773263
Waste - ADP	ADP-WST42	ADP-WST42A ADP-WST42B	17.701459	-64.773716
Waste - FBS	FBS-WST43	FBS-WST43A	17.706715	-64.773313
Waste - FBS	FBS-WST44	FBS-WST44A	17.706961	-64.773244
Waste - FBS	FBS-WST45	FBS-WST45A	17.706807	-64.773688
Waste - FBS	FBS-WST46	FBS-WST46A	17.706722	-64.774046

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Surface Water/Sediment	ACC-SW01	ACC-SW01 ACC-SD01	17.691483	-64.764389
Surface Water/Sediment	ACC-SW04	ACC-SW04 ACC-SD04	17.699901	-64.768288
Surface Water/Sediment	ACC-SW05	ACC-SW05 ACC-SD05	17.702439	-64.772531
Surface Water/Sediment	ACC-SW06	ACC-SW06 ACC-SD06	17.706078	-64.771521
Surface Water/Sediment	ACC-SW07	ACC-SW07 ACC-SD07	17.707684	-64.771817
Surface Water/Sediment	MAN-SW08	MAN-SW08 MAN-SD08	17.689433	-64.765445
Surface Water/Sediment	MAN-SW09	MAN-SW09 MAN-SD09	17.690701	-64.768599
Surface Water/Sediment	MAN-SW10	MAN-SW10 MAN-SD10	17.692218	-64.769114
Surface Water/Sediment	MAN-SW11	MAN-SW11 MAN-SD11	17.693741	-64.770766
Surface Water/Sediment	MAN-SW12	MAN-SW12 MAN-SD12	17.692439	-64.772315
Surface Water/Sediment	MAN-SW13	MAN-SW13 MAN-SD13	17.694912	-64.772248
Surface Water/Sediment	MAN-SW14	MAN-SW14 MAN-SD14	17.694767	-64.774135
Surface Water/Sediment	MAN-SW15	MAN-SW15 MAN-SD15	17.694792	-64.775153
Surface Water/Sediment	MAN-SW16	MAN-SW16 MAN-SD16	17.695132	-64.777073
Surface Water/Sediment	MAN-SW17	MAN-SW17 MAN-SD17	17.695605	-64.776831
Surface Water/Sediment	MAN-SW19	MAN-SW19 MAN-SD19	17.695624	-64.779367
Surface Water/Sediment	MAN-SW20	MAN-SW20 MAN-SD20	17.696369	-64.778511
Surface Water/Sediment	MAN-SW21	MAN-SW21 MAN-SD21	17.697390	-64.779023

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Surface Water/Sediment	WES-SW22	WES-SW22 WES-SW23 WES-SD22 WES-SD23	17.697942	-64.779038
Surface Water/Sediment	WES-SW24	WES-SW24 WES-SD24	17.699607	-64.779585
Surface Water/Sediment	WES-SW25	WES-SD25	17.703194	-64.780833
Surface Water/Sediment	LCP-SW26	LCP-SW26 LCP-SD26	17.693239	-64.765607
Surface Water/Sediment	LCP-SW27	LCP-SW27 LCP-SD27	17.692260	-64.768299
Surface Water/Sediment	LCP-SW28	LCP-SW28 LCP-SD28	17.696640	-64.767697
Surface Water/Sediment	LCP-SW29	LCP-SW29 LCP-SD29	17.698824	-64.772727
Surface Water/Sediment	LCP-SW30	LCP-SW30 LCP-SD30	17.698599	-64.773752
Surface Water/Sediment	LCP-SW31	LCP-SW31 LCP-SD31	17.695964	-64.776642
Surface Water/Sediment	LCP-SW32	LCP-SW32 LCP-SD32	17.696352	-64.778287
Surface Water/Sediment	LCP-SW33	LCP-SW33 LCP-SD33	17.696995	-64.778457
Surface Water/Sediment	UCP-SW34	UCP-SW34 UCP-SD34	17.698035	-64.778200
Surface Water/Sediment	UCP-SW35	UCP-SW35 UCP-SD35	17.699230	-64.779327
Surface Water/Sediment	UCP-SW36	UCP-SW36 UCP-SD36	17.700518	-64.778399
Surface Water/Sediment	UCP-SW37	UCP-SW37 UCP-SD37	17.700777	-64.779647
Surface Water/Sediment	UCP-SW38	UCP-SW38 UCP-SD38	17.703152	-64.779076
Surface Water/Sediment	UCP-SW39	UCP-SW39 UCP-SD39	17.703989	-64.778951
Surface Water/Sediment	UCP-SW40	UCP-SW40 UCP-SD40	17.705522	-64.778213

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Surface Water/Sediment	UCP-SW41	UCP-SW41 UCP-SD41	17.706986	-64.777338
Surface Water/Sediment	RMS-SW42	RMS-SW42 RMS-SW43 RMS-SD42 RMS-SD43	17.708762	-64.776865
Surface Water/Sediment	RMS-SW45	RMS-SW45 RMS-SD45	17.707600	-64.777064
Surface Water/Sediment	RMS-SW46	RMS-SW46 RMS-SD46	17.707667	-64.776532
Surface Water/Sediment	RMS-SW47	RMS-SD47	17.708589	-64.777429
Surface Water/Sediment	ADP-SW48	ADP-SW48 ADP-SD48	17.700169	-64.775428
Surface Water/Sediment	ADP-SW49	ADP-SW49 ADP-SD49	17.700656	-64.774443
Surface Water/Sediment	ADP-SW50	ADP-SW50 ADP-SD50	17.701232	-64.773740
Surface Water/Sediment	ADP-SW51	ADP-SW51 ADP-SD51	17.702582	-64.773616
Surface Water/Sediment	ACC-SW52	ACC-SW52 ACC-SD52	17.704859	-64.767153
Surface Water/Sediment	BG-SW53	BG-SW53 BG-SD53	17.696330	-64.783901
Surface Water/Sediment	BG-SW54	BG-SW54 BG-SD54	17.696236	-64.785111
Surface Water/Sediment	BG-SW55	BG-SW55 BG-SD55	17.697344	-64.783782
Surface Water/Sediment	BG-SW56	BG-SW56 BG-SD56	17.701283	-64.785317

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Ground Water	VW37	SCA-GW01 SCA-GW01F	17.708130	-64.782588
Ground Water	G-9	SCA-GW02 SCA-GW02F	17.715494	-64.775525
Ground Water	VW16	SCA-GW03 SCA-GW03F	17.709322	-64.770007
Ground Water	G-11	SCA-GW04 SCA-GW04F	17.709322	-64.771471
Ground Water	GM-13D	SCA-GW05 SCA-GW05F	17.708375	-64.777855
Ground Water	GM-22	SCA-GW06 SCA-GW06F	17.705325	-64.776730
Ground Water	VW25	SCA-GW07 SCA-GW07F	17.708443	-64.776223
Ground Water	GM-14	SCA-GW08 SCA-GW08F	17.706175	-64.771818
Ground Water	GM-19	SCA-GW09 SCA-GW09F	17.697751	-64.778811
Ground Water	GM-18	SCA-GW10 SCA-GW11 SCA-GW10F SCA-GW11F	17.699516	-64.772186

Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
Matrix: Soil										
BG-S01	9/12/2011	1000	Background surface soil sample from northeast portion of property	x	x	x				
BG-S02	9/12/2011	1035	Background surface soil sample from northeast portion of property		x					
BG-S03	9/12/2011	1300	Background surface soil sample from northeast portion of property		x					
BG-S04	9/12/2011	1347	Background surface soil sample from northeast portion of property		x					
BG-S05	9/12/2011	1330	Background surface soil sample from northeast portion of property		x	x				
BG-S06	9/12/2011	1335	Duplicate of BG-S05		x	x				
~~BG-SS01~~	NO SAMPLE - REFUSAL AT 4"									
BG-SS02	9/12/2011	1050	Background surface soil sample from northeast portion of property		x					
~~BG-SS03~~	NO SAMPLE - REFUSAL AT 6"									
~~BG-SS04~~	NO SAMPLE - REFUSAL AT 6"									
~~BG-SS05~~	NO SAMPLE - REFUSAL AT 6"									
BG-S07	*9/20/2011*	*1650*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S08	*9/20/2011*	*1700*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S09	*9/20/2011*	*1710*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S10	*9/20/2011*	*1715*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S11	*9/20/2011*	*1720*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S12	*9/20/2011*	*1725*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S13	*9/20/2011*	*1730*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S14	*9/20/2011*	*1740*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S15	*9/20/2011*	*1745*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S16A	*9/21/2011*	*810*	*Background soil sample near River Gut, west of site; surface sample for radiological testing; subsurface sample (depth = 3.5') for TAL and TCL parameters*	*x*	*x*	*x*				
Matrix: Waste										
RMA-WST01A	9/16/2011	1040	Surface waste sample from Red Mud Disposal Area A	x	x	x				
RMA-WST01B	9/16/2011	1040	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	x	x	x				
RMA-WST01C	9/16/2011	1045	Duplicate of RMA-WST01B	x	x	x				
RMA-WST02A	9/15/2011	910	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST02B	9/15/2011	1135	Subsurface waste sample from Red Mud Disposal Area A; depth = 2-4'	x	x					
RMA-WST03A	9/15/2011	1030	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST03B	9/15/2011	1430	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	x	x					
RMA-WST04A	9/15/2011	1055	Surface waste sample from Red Mud Disposal Area A	x	x					

Note:
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Italics indicates samples added during the field sampling event.

Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
RMA-WST04B	9/15/2011	1451	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	x	x					
RMA-WST05A	9/15/2011	1530	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST05B	9/15/2011	1522	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	x	x					
RMA-WST06A	9/15/2011	1545	Surface waste sample from Red Mud Disposal Area A	x	x	x				
RMA-WST06B	9/15/2011	1545	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	x	x	x				
RMA-WST07A	9/16/2011	950	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST07B	9/16/2011	950	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	x	x					
RMA-WST08A	9/16/2011	925	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST08B	9/16/2011	935	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	x	x					
RMA-WST09A	9/16/2011	915	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST09B	9/16/2011	915	Subsurface waste sample from Red Mud Disposal Area A; depth = 7'	x	x					
RMA-WST10A	9/16/2011	1100	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST10B	9/16/2011	1105	Subsurface waste sample from Red Mud Disposal Area A; depth = 5-6'	x	x					
RMA-WST11A	9/16/2011	1120	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST11C	9/16/2011	1125	Duplicate of RMA-WST11A	x	x					
RMA-WST11B	9/16/2011	1120	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	x	x					
RMA-WST12A	9/15/2011	1120	Surface waste sample from Red Mud Disposal Area A	x	x	x				
RMA-WST12B	9/15/2011	1500	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	x	x	x				
RMA-WST13A	9/15/2011	1615	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST13B	9/15/2011	1615	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	x	x					
RMA-WST14A	9/16/2011	1450	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST14B	9/16/2011	1450	Subsurface waste sample from Red Mud Disposal Area A; depth = 3.5'	x	x					
RMA-WST15A	9/16/2011	1435	Surface waste sample from Red Mud Disposal Area A	x	x					
~~RMA-WST15B~~	NO SAMPLE - HAND AUGER REFUSAL									
RMA-WST16A	9/16/2011	1415	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST16B	9/16/2011	1415	Subsurface waste sample from Red Mud Disposal Area A; depth = 7.5'	x	x					
RMA-WST17A	9/16/2011	1400	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST17B	9/16/2011	1400	Subsurface waste sample from Red Mud Disposal Area A; depth = 3'	x	x					
RMA-WST18A	9/15/2011	1700	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST18B	9/15/2011	1700	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	x	x					
RMA-WST19A	9/16/2011	900	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST19B	9/16/2011	900	Subsurface waste sample from Red Mud Disposal Area A; depth = 5'	x	x					

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Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
RMA-WST20A	9/15/2011	1635	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST20B	9/15/2011	1640	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	x	x					
~~RMB-WST21A~~	NO SAMPLE - FIELD DECISION DUE TO PRESENCE OF CALICHE									
~~RMB-WST21B~~	NO SAMPLE - FIELD DECISION DUE TO PRESENCE OF CALICHE									
~~RMB-WST21C~~	NO SAMPLE - FIELD DECISION DUE TO PRESENCE OF CALICHE									
RMB-WST22A	9/19/2011	1520	Surface waste sample from Red Mud Disposal Area B; sandy red mud	x	x					
RMB-WST22B	9/19/2011	1522	Subsurface waste sample from Red Mud Disposal Area B; sandy red mud; depth = 10'	x	x					
RMB-WST23A	9/19/2011	1555	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST23B	9/19/2011	1700	Subsurface waste sample from Red Mud Disposal Area B; granular material; depth = 7.5'	x	x					
RMB-WST23C	9/19/2011	1710	Duplicate of RMB-WST23B	x	x					
RMB-WST24A	9/19/2011	1740	Surface waste sample from Red Mud Disposal Area B	x	x					
~~RMB-WST24B~~	NO SAMPLE - WATER AT 2"									
~~RMB-WST25A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST25B~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST26A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST26B~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST27A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST27B~~	NOT COLLECTED - FIELD DECISION									
RMB-WST28A	9/19/2011	1230	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST28B	9/19/2011	1230	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	x	x					
RMB-WST29A	9/19/2011	1135	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST29B	9/19/2011	1135	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5'	x	x					
RMB-WST30A	9/19/2011	1210	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST30B	9/19/2011	1210	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	x	x					
~~RMB-WST31A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST31B~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST31C~~	NOT COLLECTED - FIELD DECISION									
RMB-WST32A	9/19/2011	1245	Surface waste sample from Red Mud Disposal Area B	x	x					
~~RMB-WST32B~~	NO SAMPLE - REFUSAL AT 8-12" - CALICHE									
~~RMB-WST33A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST33B~~	NOT COLLECTED - FIELD DECISION									
RMB-WST34A	9/19/2011	935	Surface waste sample from Red Mud Disposal Area B	x	x					

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Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
RMB-WST34B	9/19/2011	935	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5-4'	x	x					
~~RMB-WST35A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST35B~~	NOT COLLECTED - FIELD DECISION									
RMB-WST36A	9/19/2011	920	Surface waste sample from Red Mud Disposal Area B	x	x	x				
~~RMB-WST36B~~	NO SAMPLE - REFUSAL AT 24" - CALICHE									
RMB-WST37A	9/19/2011	810	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST37B	9/19/2011	810	Subsurface waste sample from Red Mud Disposal Area B; depth = 8'	x	x					
RMB-WST38A	9/19/2011	835	Surface waste sample from Red Mud Disposal Area B	x	x					
~~RMB-WST38B~~	NO SAMPLE - WATER AT 4-6"									
RMB-WST39A	9/19/2011	800	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST39B	9/19/2011	800	Subsurface waste sample from Red Mud Disposal Area B; depth = 3'	x	x					
RMB-WST40A	9/19/2011	1200	Surface waste sample from Red Mud Disposal Area B; red sand area	x	x					
~~RMB-WST40B~~	NO SAMPLE - REFUSAL AT 24" - CALICHE									
ADP-WST41A	9/19/2011	1015	Surface waste sample from Ash Disposal area	x	x					
ADP-WST41B	9/19/2011	1015	Subsurface waste sample from Ash Disposal area; depth = 4'	x	x	x				
ADP-WST41C	9/19/2011	1020	Duplicate of ADP-WST41B	x	x	x				
ADP-WST42A	9/19/2011	1035	Surface waste sample from Ash Disposal area	x	x	x				
ADP-WST42B	9/19/2011	1035	Subsurface waste sample from Ash Disposal area; depth = 4'	x		x				
FBS-WST43A	9/21/2011	1000	Surface waste red mud sample from drainage channel behind Former Bauxite Storage shed	x	x					
~~FBS-WST43B~~	NO SAMPLE - REFUSAL AT 6-8" - CALICHE									
FBS-WST44A	9/20/2011	925	Surface waste red mud sample from pile in Former Bauxite Storage shed	x	x					
~~FBS-WST44B~~	NO SAMPLE - ALUMINA BENEATH RED MUD AT 6-12"									
FBS-WST45A	9/20/2011	935	Surface waste red mud sample from pile in Former Bauxite Storage shed	x	x					
~~FBS-WST45B~~	NO SAMPLE - ALUMINA BENEATH RED MUD AT 14"									
FBS-WST46A	9/20/2011	950	Surface waste red mud sample from pile in Former Bauxite Storage shed	x	x					
~~FBS-WST46B~~	NO SAMPLE - ALUMINA BENEATH RED MUD AT 8-12"									
RMA-WSTR01A	*9/21/2011*	*900*	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	*x*						
RMA-WSTR02A	*9/21/2011*	*915*	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	*x*						
Matrix: Surface Water										
ACC-SW01	9/13/2011	952	Surface water sample from AluCroix Channel		x	x		x		
~~ACC-SW02~~	NOT COLLECTED - INACCESSIBLE									
~~ACC-SW03~~	NOT COLLECTED - INACCESSIBLE									

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Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
ACC-SW04	9/13/2011	1012	Surface water sample from AluCroix Channel		x			x		
ACC-SW05	9/13/2011	1107	Surface water sample from AluCroix Channel		x			x		
ACC-SW06	9/13/2011	1135	Surface water sample from AluCroix Channel		x			x		
ACC-SW07	9/13/2011	1147	Surface water sample from AluCroix Channel		x	x		x		
MAN-SW08	9/12/2011	1615	Surface water sample from coastal area		x			x		
MAN-SW09	9/12/2011	1045	Surface water sample from coastal area		x			x		
MAN-SW10	9/12/2011	1120	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW11	9/12/2011	1145	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW12	9/12/2011	1412	Surface water sample from coastal area		x			x		
MAN-SW13	9/12/2011	1530	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW14	9/12/2011	1715	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW15	9/12/2011	1700	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW16	9/12/2011	1430	Surface water sample from coastal area		x	x		x		
MAN-SW17	9/14/2011	1022	Surface water sample from coastal mangrove swamp		x			x		
~~MAN-SW18~~	NOT COLLECTED - FIELD DECISION									
MAN-SW19	9/15/2011	1012	Surface water sample from coastal area		x			x		
MAN-SW20	9/14/2011	1130	Surface water sample from mangrove swamp along former West Ditch (milky, white film on water surface)		x			x		
MAN-SW21	9/14/2011	1230	Surface water sample from mangrove swamp along former West Ditch (milky, white film on water surface)		x			x		
WES-SW22	9/14/2011	1632	Surface water sample from West Ditch		x			x		
WES-SW23	9/14/2011	1633	Duplicate of WES-SW22		x			x		
WES-SW24	9/14/2011	1722	Surface water sample from West Ditch		x			x		
~~WES-SW25~~	NO SAMPLE - NO WATER AT LOCATION									
LCP-SW26	9/14/2011	1019	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW27	9/14/2011	957	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW28	9/14/2011	1035	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW29	9/14/2011	1051	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW30	9/14/2011	1133	Surface water sample from Lower Cooling Pond, at outfall from Red Mud Area B		x			x		
LCP-SW31	9/14/2011	1044	Surface water sample from Lower Cooling Pond		x	x		x		
LCP-SW32	9/14/2011	1115	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW33	9/14/2011	1200	Surface water sample from Lower Cooling Pond		x			x		
UCP-SW34	9/14/2011	1620	Surface water sample from Upper Cooling Pond		x			x		
UCP-SW35	9/14/2011	1700	Surface water sample from Upper Cooling Pond	x	x			x		

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Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
UCP-SW36	9/15/2011	1602	Surface water sample from Upper Cooling Pond		x	x		x		
UCP-SW37	9/14/2011	1738	Surface water sample from Upper Cooling Pond		x			x		
UCP-SW38	9/15/2011	1734	Surface water sample from Upper Cooling Pond		x			x		
UCP-SW39	9/14/2011	1720	Surface water sample from Upper Cooling Pond	x	x			x		
UCP-SW40	9/14/2011	1740	Surface water sample from Upper Cooling Pond		x			x		
UCP-SW41	9/14/2011	1805	Surface water sample from Upper Cooling Pond		x			x		
RMS-SW42	9/15/2011	901	Surface water sample from Settling Pond		x			x		
RMS-SW43	9/15/2011	902	Duplicate of RMS-SW42		x			x		
~~RMS-SW44~~	NOT COLLECTED - FIELD DECISION									
RMS-SW45	9/14/2011	1817	Surface water sample from Settling Pond	x	x	x		x		
RMS-SW46	9/15/2011	825	Surface water sample from Settling Pond		x			x		
~~RMS-SW47~~	NO SAMPLE - NO WATER AT LOCATION									
ADP-SW48	9/14/2011	1218	Surface water sample from Ash Disposal Pond		x			x		
ADP-SW49	9/14/2011	1205	Surface water sample from Ash Disposal Pond		x			x		
ADP-SW50	9/14/2011	1248	Surface water sample from Ash Disposal Pond		x	x		x		
ADP-SW51	9/14/2011	1318	Surface water sample from Ash Disposal Pond		x			x		
ACC-SW52	9/13/2011	1212	Surface water sample from intake arm on east side of AluCroix Channel		x			x		
BG-SW53	9/13/2011	1422	Background surface water sample from coastal area west of site		x	x		x		
BG-SW54	9/13/2011	1412	Background surface water sample from mouth of River Gut, west of site		x			x		
BG-SW55	9/13/2011	1447	Background surface water sample from River Gut, west of site		x	x		x		
BG-SW56	9/13/2011	1515	Background surface water sample from River Gut, west of site		x			x		
SW-RMA-WST12	*9/15/2011*	*1500*	*Water sample from ponded water at waste sample location RMA-WST12*	*x*						
RMA-SW57	*9/20/2011*	*1315*	*Storm water runoff from culvert at Red Mud Disposal Area A*	*x*	*x*	*x*				
Matrix: Sediment										
ACC-SD01	9/13/2011	957	Sediment sample from same location as ACC-SW01; yellow, coarse to fine sand with shell fragments		x	x			x	x
~~ACC-SD02~~	NOT COLLECTED - INACCESSIBLE									
~~ACC-SD03~~	NOT COLLECTED - INACCESSIBLE									
ACC-SD04	9/13/2011	1020	Sediment sample from same location as ACC-SW04; yellow, coarse to fine sand with shell fragments		x				x	x
ACC-SD05	9/13/2011	1110	Sediment sample from same location as ACC-SW05; brown silt and fine sand with organic root matter		x				x	x
ACC-SD06	9/13/2011	1140	Sediment sample from same location as ACC-SW06; yellow coarse to fine sand		x				x	x
ACC-SD07	9/13/2011	1150	Sediment sample from same location as ACC-SW07; yellow coarse to fine sand		x	x			x	x
MAN-SD08	9/12/2011	1620	Sediment sample from same location as MAN-SW08; yellow coarse to fine sand with shell pieces		x				x	x

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Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
MAN-SD09	9/12/2011	1047	Sediment sample from same location as MAN-SW09; yellow/tan coarse to fine sand with shell pieces		x				x	x
MAN-SD10	9/12/2011	1125	Sediment sample from same location as MAN-SW10; brown medium to fine sand with some clay and silt		x				x	x
MAN-SD11	9/12/2011	1147	Sediment sample from same location as MAN-SW11; brown fine sand with silt and clay		x				x	x
MAN-SD12	9/12/2011	1415	Sediment sample from same location as MAN-SW12; yellow/tan coarse to fine sand with some shell fragments		x				x	x
MAN-SD13	9/12/2011	1533	Sediment sample from same location as MAN-SW13; brown fine sand and silt with some clay		x				x	x
MAN-SD14	9/12/2011	1720	Sediment sample from same location as MAN-SW14; brown silt and clay with some fine sand		x				x	x
MAN-SD15	9/12/2011	1705	Sediment sample from same location as MAN-SW15; brown silt and clay with some fine sand		x				x	x
MAN-SD16	9/12/2011	1435	Sediment sample from same location as MAN-SW16; yellow coarse to fine sand with some shell pieces		x	x			x	x
MAN-SD17	9/14/2011	1025	Sediment sample from same location as MAN-SW17; yellow coarse sand w/shell fragments, mixed with red mud		x				x	x
~~MAN-SD18~~	NOT COLLECTED - FIELD DECISION									
MAN-SD19	9/15/2011	1016	Sediment sample from same location as MAN-SW19; yellow coarse to fine sand with shell fragments		x				x	x
MAN-SD20	9/14/2011	1140	Sediment sample from same location as MAN-SW20; red to dk-gray muck		x				x	x
MAN-SD21	9/14/2011	1235	Sediment sample from same location as MAN-SW21; medium-gray-brown muck		x				x	x
WES-SD22	9/14/2011	1637	Sediment sample from same location as WES-SW22; red mud in brown sediments		x				x	x
WES-SD23	9/14/2011	1638	Duplicate of WES-SD22		x				x	x
WES-SD24	9/14/2011	1727	Sediment sample from same location as WES-SW24; brown/black organic sediments		x				x	x
WES-SD25	9/15/2011	1657	Sediment sample from northern end of West Ditch; red silt and fine sand with some clay; no water at location		x				x	x
LCP-SD26	9/14/2011	1021	Sediment sample from same location as LCP-SW26; light-brown fine sand and silt with some pebbles		x				x	x
LCP-SD27	9/14/2011	1000	Sediment sample from same location as LCP-SW27; brown silt and fine sand with some clay and organics		x				x	x
LCP-SD28	9/14/2011	1037	Sediment sample from same location as LCP-SW28; yellow coarse to fine sand		x				x	x
LCP-SD29	9/14/2011	1054	Sediment sample from same location as LCP-SW29; brown medium to fine sand with some silt		x				x	x
LCP-SD30	9/14/2011	1136	Sediment sample from same location as LCP-SW30; brown silt, clay and some fine sand		x				x	x
LCP-SD31	9/14/2011	1050	Sediment sample from same location as LCP-SW31; thin red-mud film at surface, brown to dark-gray muck		x	x			x	x
LCP-SD32	9/14/2011	1120	Sediment sample from same location as LCP-SW32; red to brown muck		x				x	x
LCP-SD33	9/14/2011	1205	Sediment sample from same location as LCP-SW33; dense red mud nodules, 0-3"	x	x				x	x
UCP-SD34	9/14/2011	1625	Sediment sample from same location as UCP-SW34; red mud bank near spillway		x				x	x
UCP-SD35	9/14/2011	1705	Sediment sample from same location as UCP-SW35; red mud in mud flat sediments	x	x	x			x	x
UCP-SD36	9/15/2011	1605	Sediment sample from same location as UCP-SW36; red silt, clay, and fine sand		x	x			x	x
UCP-SD37	9/14/2011	1743	Sediment sample from same location as UCP-SW37; red mud, heavy silting	x	x				x	x
UCP-SD38	9/15/2011	1736	Sediment sample from same location as UCP-SW38; red fine sand, silt and clay		x				x	x
UCP-SD39	9/14/2011	1725	Sediment sample from same location as UCP-SW39; red clay with some fine sand, soft	x	x				x	x
UCP-SD40	9/14/2011	1745	Sediment sample from same location as UCP-SW40; red clay with trace fine sand, soft		x				x	x

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Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
UCP-SD41	9/14/2011	1810	Sediment sample from same location as UCP-SW41; red clay with some silt and fine sand		x				x	x
RMS-SD42	9/15/2011	907	Sediment sample from same location as RMS-SW42; red clay and silt with some fine sand		x				x	x
RMS-SD43	9/15/2011	908	Duplicate of RMS-SD42		x				x	x
~~RMS-SD44~~	NOT COLLECTED - FIELD DECISION									
RMS-SD45	9/14/2011	1820	Sediment sample from same location as RMS-SW45; red clay with some silt and fine sand	x	x	x			x	x
RMS-SD46	9/15/2011	828	Sediment sample from same location as RMS-SW46; red clay with some fine sand and silt		x				x	x
RMS-SD47	9/15/2011	855	Sediment sample from same location as RMS-SW47; red clay with some fine sand and silt; no water at location		x				x	x
ADP-SD48	9/14/2011	1220	Sediment sample from same location as ADP-SW48; yellow coarse to fine sand		x				x	x
ADP-SD49	9/14/2011	1207	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	x	x				x	x
ADP-SD50	9/14/2011	1251	Sediment sample from same location as ADP-SW50; brown silt and clay with some fine sand		x	x			x	x
ADP-SD51	9/14/2011	1320	Sediment sample from same location as ADP-SW51; brown silt and clay with some fine sand		x				x	x
ACC-SD52	9/13/2011	1215	Sediment sample from same location as ACC-SW52; yellow-brown coarse to fine sand		x				x	x
BG-SD53	9/13/2011	1425	Sediment sample from same location as BG-SW53; yellow coarse to fine sand		x	x			x	x
BG-SD54	9/13/2011	1415	Sediment sample from same location as BG-SW54; yellow coarse to fine sand		x				x	x
BG-SD55	9/13/2011	1453	Sediment sample from same location as BG-SW55; brown fine sand and silt		x	x			x	x
BG-SD56	9/13/2011	1518	Sediment sample from same location as BG-SW56; brown fine sand and silt		x				x	x
RMA-SD57	*9/21/2011*	*1025*	*Sample from red mud depositional area south of Area A*	*x*	*x*	*x*				
RMA-SD58	*9/21/2011*	*1038*	*Sample from red mud depositional area south of Area A*	*x*	*x*					
RMA-SD59	*9/21/2011*	*1055*	*Sample from red mud depositional area south of Area A*	*x*	*x*	*x*				
RMA-SD60	*9/21/2011*	*1105*	*Sample from red mud depositional area south of Area A*	*x*	*x*					
RMA-SD61	*9/21/2011*	*1115*	*Sample from red mud depositional area south of Area A*	*x*	*x*					
RMA-SD62	*9/21/2011*	*1120*	*Sample from red mud depositional area south of Area A*	*x*	*x*	*x*				
RMA-SD63	*9/21/2011*	*1130*	*Duplicate of RMA-SD62*	*x*	*x*	*x*				
Matrix: Ground Water										
SCA-GW01	9/20/2011	1641	Unfiltered ground water sample from monitoring well VW37	x	x	x	x	x		
SCA-GW01F	9/20/2011	1641	Filtered ground water sample from monitoring well VW37		x					
SCA-GW02	9/19/2011	1125	Unfiltered ground water sample from monitoring well G-9	x	x		x	x		
SCA-GW02F	9/19/2011	1125	Filtered ground water sample from monitoring well G-9		x					
SCA-GW03	9/19/2011	1737	Unfiltered ground water sample from monitoring well VW16		x		x	x		
SCA-GW03F	9/19/2011	1737	Filtered ground water sample from monitoring well VW16		x					
SCA-GW04	9/19/2011	1406	Unfiltered ground water sample from monitoring well G-11		x	x	x	x		
SCA-GW04F	9/19/2011	1406	Filtered ground water sample from monitoring well G-11		x					

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Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
SCA-GW05	9/21/2011	915	Unfiltered ground water sample from monitoring well GM-13D	x	x		x	x		
SCA-GW05F	9/21/2011	915	Filtered ground water sample from monitoring well GM-13D		x					
SCA-GW06	9/21/2011	1155	Unfiltered ground water sample from monitoring well GM-22	x	x	x	x	x		
SCA-GW06F	9/21/2011	1155	Filtered ground water sample from monitoring well GM-22		x					
SCA-GW07	9/19/2011	1551	Unfiltered ground water sample from monitoring well VW25	x	x		x	x		
SCA-GW07F	9/19/2011	1551	Filtered ground water sample from monitoring well VW25		x					
SCA-GW08	9/20/2011	1042	Unfiltered ground water sample from monitoring well GM-14	x	x		x	x		
SCA-GW08F	9/20/2011	1042	Filtered ground water sample from monitoring well GM-14		x					
SCA-GW09	9/20/2011	1230	Unfiltered ground water sample from monitoring well GM-19		x		x	x		
SCA-GW09F	9/20/2011	1230	Filtered ground water sample from monitoring well GM-19		x					
SCA-GW10	9/20/2011	900	Unfiltered ground water sample from monitoring well GM-18	x	x	x	x	x		
SCA-GW10F	9/20/2011	900	Filtered ground water sample from monitoring well GM-18		x					
SCA-GW11	9/20/2011	905	Duplicate of SCA-GW10		x	x	x	x		
SCA-GW11F	9/20/2011	905	Duplicate of SCA-GW10F		x					
Matrix: Blanks										
WST-RIN01	9/15/2011	1825	Rinsate blank (hand auger)	x	x	x				
WST-RIN02	9/16/2011	1521	Rinsate blank (hand auger)		x	x				
MW-RIN03	9/19/2011	1900	Rinsate blank (bladder pump)		x	x	x	x		
WST-RIN05	9/19/2011	730	Rinsate blank (hand auger)		x	x				
SD-RIN06	9/12/2011	1410	Rinsate blank (hand auger)		x					
SCA-TB01	9/19/2011	1045	Trip blank				x			
SCA-TB02	9/19/2011	1800	Trip blank				x			
SCA-TB03	9/20/2011	1810	Trip blank				x			
SCA-TB04	9/21/2011	1515	Trip blank				x			

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Table 3
pH Measurements (Highest to Lowest) - Solid Matrix Samples
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID	Sample ID	Sample Date	Sample Time	Matrix	Temp. (°C)	pH (std. units)
RMB-WST37	RMB-WST37B	9/19/2011	8:10	Waste	25.1	12.59
RMA-WST04	RMA-WST04B	9/15/2011	14:51	Waste	22.8	12.52
RMB-WST34	RMB-WST34B	9/19/2011	9:35	Waste	25.0	12.52
RMB-WST23	RMB-WST23B	9/19/2011	17:00	Waste	22.5	12.49
RMA-WST03	RMA-WST03B	9/15/2011	14:30	Waste	22.8	12.47
RMB-WST23	RMB-WST23C	9/19/2011	17:10	Waste	22.9	12.44
RMA-WST19	RMA-WST19B	9/16/2011	9:00	Waste	24.2	12.40
RMB-WST37	RMB-WST37A	9/19/2011	8:10	Waste	24.9	12.35
RMA-WST08	RMA-WST08B	9/16/2011	9:35	Waste	24.5	12.34
RMA-WST05	RMA-WST05B	9/15/2011	15:22	Waste	22.9	12.33
RMA-WST10	RMA-WST10A	9/16/2011	11:00	Waste	24.3	12.05
RMA-WST06	RMA-WST06B	9/15/2011	15:45	Waste	22.8	12.01
RMB-WST22	RMB-WST22B	9/19/2011	15:22	Waste	22.2	11.91
RMA-WST02	RMA-WST02B	9/15/2011	11:35	Waste	25.4	11.88
RMA-WST11	RMA-WST11B	9/16/2011	11:20	Waste	24.4	11.77
RMB-WST28	RMB-WST28B	9/19/2011	12:30	Waste	24.8	11.70
RMA-WST10	RMA-WST10B	9/16/2011	11:05	Waste	24.4	11.65
RMA-WST12	RMA-WST12B	9/15/2011	15:00	Waste	22.7	11.55
RMA-WST18	RMA-WST18B	9/15/2011	17:00	Waste	22.9	11.44
RMA-WST07	RMA-WST07B	9/16/2011	9:50	Waste	24.4	11.27
RMA-WST05	RMA-WST05A	9/15/2011	15:30	Waste	22.7	11.25
RMA-WST01	RMA-WST01C	9/16/2011	10:45	Waste	24.2	11.14
RMB-WST29	RMB-WST29B	9/19/2011	11:35	Waste	24.8	11.13
RMA-WST01	RMA-WST01B	9/16/2011	10:40	Waste	24.5	11.11
RMA-WST08	RMA-WST08A	9/16/2011	9:35	Waste	24.5	11.10
RMA-WST11	RMA-WST11C	9/16/2011	11:25	Waste	24.0	11.05
RMB-WST23	RMB-WST23A	9/19/2011	15:55	Waste	22.3	11.05
RMB-WST22	RMB-WST22A	9/19/2011	15:20	Waste	22.2	11.02
RMA-WST12	RMA-WST12A	9/15/2011	11:20	Waste	25.4	10.99
FBS-WST45	FBS-WST45A	9/20/2011	9:35	Waste	23.6	10.93
RMA-WST09	RMA-WST09B	9/16/2011	9:15	Waste	24.3	10.91
RMA-WST18	RMA-WST18A	9/15/2011	17:00	Waste	22.9	10.91
RMB-WST34	RMB-WST34A	9/19/2011	9:35	Waste	25.0	10.91
RMA-WST13	RMA-WST13A	9/15/2011	13:16	Waste	22.8	10.88
RMA-WST06	RMA-WST06A	9/16/2011	15:45	Waste	22.6	10.87
RMA-WST07	RMA-WST07A	9/16/2011	9:50	Waste	24.3	10.82
RMA-WST03	RMA-WST03A	9/15/2011	10:30	Waste	25.5	10.81
RMA-WST20	RMA-WST20A	9/15/2011	16:35	Waste	22.7	10.80
RMA-WST19	RMA-WST19A	9/16/2011	9:00	Waste	24.2	10.78

Table 3
pH Measurements (Highest to Lowest) - Solid Matrix Samples
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID	Sample ID	Sample Date	Sample Time	Matrix	Temp. (°C)	pH (std. units)
RMA-WST11	RMA-WST11A	9/16/2011	11:20	Waste	24.3	10.75
RMA-WST17	RMA-WST17A	9/16/2011	14:00	Waste	22.9	10.74
RMA-WST09	RMA-WST09A	9/16/2011	9:15	Waste	24.4	10.71
RMA-WSTR01	RMA-WSTR01A	9/21/2011	9:00	Waste	25.6	10.69
RMB-WST30	RMB-WST30A	9/19/2011	12:10	Waste	24.8	10.69
RMA-WST14	RMA-WST14B	9/16/2011	14:50	Waste	22.8	10.67
RMA-WST02	RMA-WST02A	9/15/2011	8:10	Waste	25.4	10.66
RMA-WST16	RMA-WST16B	9/16/2011	14:15	Waste	22.9	10.65
RMB-WST30	RMB-WST30B	9/19/2011	12:10	Waste	25.1	10.62
RMA-WST16	RMA-WST16A	9/16/2011	14:15	Waste	22.9	10.61
RMA-WST13	RMA-WST13B	9/15/2011	16:15	Waste	22.8	10.58
RMA-WST04	RMA-WST04A	9/15/2011	10:55	Waste	25.4	10.57
RMA-WST17	RMA-WST17B	9/16/2011	14:00	Waste	22.9	10.57
RMB-WST28	RMB-WST28A	9/19/2011	12:30	Waste	24.9	10.57
RMB-WST29	RMB-WST29A	9/19/2011	11:35	Waste	24.7	10.54
RMA-WST02	RMA-WSTR02A	9/21/2011	9:15	Waste	25.5	10.53
FBS-WST44	FBS-WST44A	9/20/2011	9:25	Waste	24.0	10.50
RMA-SD57	RMA-SD57	9/21/2011	10:25	Waste	25.8	10.48
RMA-SD58	RMA-SD58	9/21/2011	10:38	Waste	25.9	10.48
RMS-SW42	RMS-SD42	9/15/2011	9:07	Sediment	25.0	10.48
RMS-SW42	RMS-SD43	9/15/2011	9:08	Sediment	25.1	10.40
RMB-WST39	RMB-WST39A	9/19/2011	8:00	Waste	25.1	10.35
RMA-WST14	RMA-WST14A	9/16/2011	14:50	Waste	22.6	10.33
RMB-WST24	RMB-WST24A	9/19/2011	17:40	Waste	22.7	10.30
FBS-WST46	FBS-WST46A	9/20/2011	9:50	Waste	23.7	10.29
RMA-WST15	RMA-WST15A	9/16/2011	14:35	Waste	22.8	10.23
RMS-SW47	RMS-SD47	9/15/2011	8:55	Sediment	25.0	10.20
UCP-SW41	UCP-SD41	9/14/2011	18:10	Sediment	25.4	10.20
ADP-WST41	ADP-WST41A	9/19/2011	10:15	Waste	25.0	10.17
RMS-SW45	RMS-SD45	9/14/2011	18:20	Sediment	25.4	10.15
RMA-WST20	RMA-WST20B	9/15/2011	16:40	Waste	23.1	10.12
RMB-WST38	RMB-WST38A	9/19/2011	8:35	Waste	25.1	10.09
RMA-SD63	RMA-SD63	9/21/2011	11:30	Waste	25.7	9.98
RMB-WST39	RMB-WST39B	9/19/2011	8:00	Waste	25.2	9.89
RMA-SD59	RMA-SD59	9/21/2011	10:55	Waste	25.7	9.86
RMA-SD60	RMA-SD60	9/21/2011	11:05	Waste	25.8	9.85
RMA-SD62	RMA-SD62	9/21/2011	11:20	Waste	25.9	9.84
ADP-WST42	ADP-WST42A	9/19/2011	10:35	Waste	25.2	9.83
RMS-SW46	RMS-SD46	9/15/2011	8:28	Sediment	25.1	9.68

Table 3
pH Measurements (Highest to Lowest) - Solid Matrix Samples
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID	Sample ID	Sample Date	Sample Time	Matrix	Temp. (°C)	pH (std. units)
ADP-SW50	ADP-SD50	9/14/2011	12:51	Sediment	25.5	9.50
RMA-WST01	RMA-WST01A	9/16/2011	10:40	Waste	24.5	9.45
ADP-SW49	ADP-SD49	9/14/2011	12:07	Sediment	25.4	9.21
RMB-WST32	RMB-WST32A	9/19/2011	12:45	Waste	24.9	9.14
ADP-SW51	ADP-SD51	9/14/2011	13:20	Sediment	25.4	9.07
FBS-WST43	FBS-WST43A	9/21/2011	10:00	Waste	25.7	9.02
ADP-SW48	ADP-SD48	9/14/2011	12:20	Sediment	25.2	8.99
RMB-WST36	RMB-WST36A	9/19/2011	9:20	Waste	25.4	8.69
MAN-SW12	MAN-SD12	9/12/2011	14:15	Sediment	25.0	8.65
MAN-SW08	MAN-SD08	9/12/2011	16:20	Sediment	24.7	8.64
LCP-SW30	LCP-SD30	9/14/2011	11:36	Sediment	25.7	8.58
ACC-SW07	ACC-SD07	9/13/2011	11:50	Sediment	25.0	8.55
ACC-SW52	ACC-SD52	9/13/2011	12:15	Sediment	25.1	8.54
MAN-SW16	MAN-SD16	9/12/2011	14:35	Sediment	24.7	8.38
WES-SW25	WES-SD25	9/16/2011	16:57	Sediment	22.7	8.38
LCP-SW28	LCP-SD28	9/14/2011	10:37	Sediment	25.6	8.31
ADP-WST42	ADP-WST42B	9/19/2011	10:35	Waste	24.6	8.27
UCP-SW40	UCP-SD40	9/14/2011	17:45	Sediment	25.1	8.27
UCP-SW36	UCP-SD36	9/15/2011	16:05	Sediment	23.0	8.23
BG-SW56	BG-SD56	9/13/2011	15:18	Sediment	25.7	8.20
BG-SW55	BG-SD55	9/13/2011	14:53	Sediment	25.6	8.12
LCP-SW26	LCP-SD26	9/14/2011	10:21	Sediment	25.6	8.09
ACC-SW06	ACC-SD06	9/13/2011	11:40	Sediment	25.0	8.08
RMB-WST40	RMB-WST40A	9/19/2011	12:00	Waste	24.6	8.06
ACC-SW04	ACC-SD04	9/13/2011	10:20	Sediment	25.1	8.02
UCP-SW34	UCP-SD34	9/14/2011	16:25	Sediment	25.4	8.01
UCP-SW39	UCP-SD39	9/14/2011	17:25	Sediment	25.4	7.99
UCP-SW38	UCP-SD38	9/16/2011	17:36	Sediment	22.9	7.97
WES-SW22	WES-SD23	9/14/2011	16:38	Sediment	25.5	7.96
LCP-SW33	LCP-SD33	9/14/2011	12:05	Sediment	25.7	7.89
LCP-SW29	LCP-SD29	9/14/2011	10:54	Sediment	25.5	7.88
BG-SW54	BG-SD54	9/13/2011	14:15	Sediment	25.7	7.86
MAN-SW15	MAN-SD15	9/12/2011	17:05	Sediment	24.7	7.83
LCP-SW31	LCP-SD31	9/14/2011	10:50	Sediment	25.4	7.82
BG-S16	BG-S16A	9/21/2011	8:10	Soil	25.4	7.81
BG-S01	BG-S01	9/12/2011	10:00	Soil	24.2	7.80
UCP-SW37	UCP-SD37	9/14/2011	17:43	Sediment	25.4	7.77
MAN-SW10	MAN-SD10	9/12/2011	11:25	Sediment	24.5	7.76
MAN-SW13	MAN-SD13	9/12/2011	15:33	Sediment	24.7	7.76

Table 3
pH Measurements (Highest to Lowest) - Solid Matrix Samples
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID	Sample ID	Sample Date	Sample Time	Matrix	Temp. (°C)	pH (std. units)
BG-S02	BG-SS02	9/12/2011	10:50	Soil	24.1	7.72
ACC-SW01	ACC-SD01	9/13/2011	9:57	Sediment	24.8	7.71
BG-S12	BG-S12	9/20/2011	17:25	Soil	23.8	7.70
WES-SW22	WES-SD22	9/14/2011	16:37	Sediment	25.4	7.70
MAN-SW19	MAN-SD19	9/15/2011	10:16	Sediment	25.3	7.69
UCP-SW35	UCP-SD35	9/14/2011	17:05	Sediment	25.6	7.69
WES-SW24	WES-SD24	9/14/2011	17:27	Sediment	25.5	7.68
MAN-SW09	MAN-SD09	9/12/2011	10:47	Sediment	24.4	7.65
MAN-SW21	MAN-SD21	9/14/2011	12:35	Sediment	25.9	7.65
MAN-SW20	MAN-SD20	9/14/2011	11:40	Sediment	25.7	7.64
MAN-SW14	MAN-SD14	9/12/2011	17:20	Sediment	24.6	7.63
MAN-SW17	MAN-SD17	9/14/2011	10:25	Sediment	25.9	7.60
BG-SW53	BG-SD53	9/13/2011	14:25	Sediment	25.3	7.56
RMA-SD61	RMA-SD61	9/21/2011	11:15	Waste	25.9	7.52
BG-S04	BG-S04	9/12/2011	13:47	Soil	24.8	7.50
BG-S05	BG-S05	9/12/2011	13:30	Soil	24.9	7.50
BG-S05	BG-S06	9/12/2011	13:35	Soil	24.9	7.50
BG-S02	BG-S02	9/12/2011	10:35	Soil	24.1	7.42
LCP-SW32	LCP-SD32	9/14/2011	11:20	Sediment	25.8	7.38
MAN-SW11	MAN-SD11	9/12/2011	11:47	Sediment	24.4	7.31
BG-S08	BG-S08	9/20/2011	17:00	Soil	23.7	7.30
LCP-SW27	LCP-SD27	9/14/2011	10:00	Sediment	25.4	7.30
BG-S13	BG-S13	9/20/2011	17:30	Soil	23.7	7.29
BG-S14	BG-S14	9/20/2011	17:40	Soil	23.7	7.29
BG-S11	BG-S11	9/20/2011	17:20	Soil	23.6	7.26
ACC-SW05	ACC-SD05	9/13/2011	11:10	Sediment	25.6	7.21
BG-S15	BG-S15	9/20/2011	17:45	Soil	23.5	7.19
BG-S10	BG-S10	9/20/2011	17:15	Soil	23.7	7.13
BG-S03	BG-S03	9/12/2011	13:00	Soil	24.2	7.03
BG-S09	BG-S09	9/20/2011	17:10	Soil	23.6	7.03
ADP-WST41	ADP-WST41B	9/19/2011	10:15	Waste	25.4	6.99
BG-S07	BG-S07	9/20/2011	16:50	Soil	23.5	6.96
ADP-WST41	ADP-WST41C	9/19/2011	10:20	Waste	25.5	6.83

Table 4
pH Measurements (Highest to Lowest) - Aqueous Samples
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID	Sample ID	Sample Date	Sample Time	Matrix	pH
GM-22	SCA-GW06	9/21/2011	11:55	Ground Water	12.78
RMA	RMA-SW57	9/20/2011	13:15	Runoff	10.55
RMA-WST12	SW-RMA-WST12	9/15/2011	15:00	Ponded Water	10.43
LCP-SW30	LCP-SW30	9/14/2011	11:33	Surface Water	10.16
RMS-SW42	RMS-SW42	9/15/2011	9:01	Surface Water	10.10
RMS-SW42	RMS-SW43	9/15/2011	9:02	Surface Water	10.10
UCP-SW41	UCP-SW41	9/14/2011	18:05	Surface Water	9.88
RMS-SW45	RMS-SW45	9/14/2011	18:17	Surface Water	9.85
ADP-SW49	ADP-SW49	9/14/2011	12:05	Surface Water	9.65
ADP-SW48	ADP-SW48	9/14/2011	12:18	Surface Water	9.61
ADP-SW50	ADP-SW50	9/14/2011	12:48	Surface Water	9.61
ADP-SW51	ADP-SW51	9/14/2011	13:18	Surface Water	9.57
RMS-SW46	RMS-SW46	9/15/2011	8:25	Surface Water	9.53
ACC-SW01	ACC-SW01	9/13/2011	9:52	Surface Water	9.31
GM-13D	SCA-GW05	9/21/2011	9:15	Ground Water	9.28
MAN-SW15	MAN-SW15	9/12/2011	17:00	Surface Water	9.06
LCP-SW31	LCP-SW31	9/14/2011	10:44	Surface Water	8.85
UCP-SW37	UCP-SW37	9/14/2011	17:38	Surface Water	8.79
LCP-SW29	LCP-SW29	9/14/2011	10:51	Surface Water	8.75
MAN-SW14	MAN-SW14	9/12/2011	17:15	Surface Water	8.67
MAN-SW17	MAN-SW17	9/14/2011	10:22	Surface Water	8.65
UCP-SW36	UCP-SW36	9/15/2011	16:02	Surface Water	8.65
MAN-SW13	MAN-SW13	9/12/2011	15:30	Surface Water	8.52
LCP-SW27	LCP-SW27	9/14/2011	9:57	Surface Water	8.50
ACC-SW07	ACC-SW07	9/13/2011	11:47	Surface Water	8.44
UCP-SW38	UCP-SW38	9/15/2011	19:34	Surface Water	8.40
MAN-SW11	MAN-SW11	9/12/2011	11:45	Surface Water	8.30
UCP-SW40	UCP-SW40	9/14/2011	17:40	Surface Water	8.27
LCP-SW26	LCP-SW26	9/14/2011	10:19	Surface Water	8.18
UCP-SW34	UCP-SW34	9/14/2011	16:20	Surface Water	8.18
UCP-SW39	UCP-SW39	9/14/2011	17:20	Surface Water	8.18
UCP-SW35	UCP-SW35	9/14/2011	17:00	Surface Water	8.17
MAN-SW12	MAN-SW12	9/12/2011	14:12	Surface Water	8.13
LCP-SW28	LCP-SW28	9/14/2011	10:55	Surface Water	8.10
WES-SW24	WES-SW24	9/14/2011	17:22	Surface Water	8.10
ACC-SW52	ACC-SW52	9/13/2011	12:12	Surface Water	8.08
MAN-SW08	MAN-SW08	9/12/2011	16:15	Surface Water	8.06
ACC-SW04	ACC-SW04	9/13/2011	10:12	Surface Water	8.05

Table 4
pH Measurements (Highest to Lowest) - Aqueous Samples
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID	Sample ID	Sample Date	Sample Time	Matrix	pH
ACC-SW06	ACC-SW06	9/13/2011	11:35	Surface Water	8.05
LCP-SW32	LCP-SW32	9/14/2011	11:15	Surface Water	8.05
LCP-SW33	LCP-SW33	9/14/2011	12:00	Surface Water	8.05
MAN-SW16	MAN-SW16	9/12/2011	14:30	Surface Water	8.05
WES-SW22	WES-SW22	9/14/2011	16:32	Surface Water	8.05
WES-SW22	WES-SW23	9/14/2011	16:33	Surface Water	8.05
GM-18	SCA-GW10	9/20/2011	9:00	Ground Water	7.98
GM-18	SCA-GW11	9/20/2011	9:05	Ground Water	7.98
MAN-SW19	MAN-SW19	9/15/2011	10:12	Surface Water	7.90
BG-SW55	BG-SW55	9/13/2011	14:47	Surface Water	7.89
MAN-SW20	MAN-SW20	9/14/2011	11:30	Surface Water	7.85
MAN-SW10	MAN-SW10	9/12/2011	11:20	Surface Water	7.79
G-11	SCA-GW04	9/19/2011	14:06	Ground Water	7.76
MAN-SW09	MAN-SW09	9/12/2011	10:45	Surface Water	7.75
MAN-SW21	MAN-SW21	9/14/2011	12:30	Surface Water	7.62
ACC-SW05	ACC-SW05	9/13/2011	11:07	Surface Water	7.55
GM-19	SCA-GW09	9/20/2011	12:30	Ground Water	7.55
BG-SW54	BG-SW54	9/13/2011	14:12	Surface Water	7.54
BG-SW56	BG-SW56	9/13/2011	15:15	Surface Water	7.54
VW37	SCA-GW01	9/20/2011	16:41	Ground Water	7.51
GM-14	SCA-GW08	9/20/2011	10:22	Ground Water	7.40
G-9	SCA-GW02	9/19/2011	11:25	Ground Water	7.27
VW25	SCA-GW07	9/19/2011	15:51	Ground Water	7.19
BG-SW53	BG-SW53	9/13/2011	14:22	Surface Water	6.98
VW16	SCA-GW03	9/19/2011	17:37	Ground Water	6.72

Table 5
Sample Dispatch and COC Information - CHEMTECH
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	CLP Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/13/2011	873693948798	2-091311-151533-0004	ACC-SD01	B56Z5	9/13/2011	9:57	Sediment	CLP TCL Semivolatiles/Aroclors	MS/MSD
			ACC-SD07	B56Z8	9/13/2011	11:50	Sediment	CLP TCL Semivolatiles/Aroclors	
			ACC-SW07	B98S9	9/13/2011	11:47	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			BG-S01	B56Z1	9/12/2011	10:00	Soil	CLP TCL Semivolatiles/Aroclors	
			BG-S05	B56Z3	9/12/2011	13:30	Soil	CLP TCL Semivolatiles/Aroclors	
			BG-S06	B56Z4	9/12/2011	13:35	Soil	CLP TCL Semivolatiles/Aroclors	Field Duplicate of BG-S05
			MAN-SD16	B56Z9	9/12/2011	14:35	Sediment	CLP TCL Semivolatiles/Aroclors	
			MAN-SW16	B98N2	9/12/2011	14:30	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
		2-091311-151747-0005	ACC-SW01	B98S3	9/13/2011	9:52	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	MS/MSD
9/14/2011	873693948813	2-091411-110922-0008	BG-SD53	B5716	9/13/2011	14:25	Sediment	CLP TCL Semivolatiles/Aroclors	
			BG-SD55	B5717	9/13/2011	14:53	Sediment	CLP TCL Semivolatiles/Aroclors	
			BG-SW53	B98R9	9/13/2011	14:22	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			BG-SW55	B98S1	9/13/2011	14:47	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
9/15/2011	873693945170	2-091411-180133-0010	ADP-SD50	B5715	9/14/2011	12:51	Sediment	CLP TCL Semivolatiles/Aroclors	
			ADP-SW50	B98R6	9/14/2011	12:48	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			LCP-SD31	B5718	9/14/2011	10:50	Sediment	CLP TCL Semivolatiles/Aroclors	
			LCP-SW31	B98P7	9/14/2011	10:44	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
		2-091511-152733-0015	RMS-SD45	B5720	9/14/2011	18:20	Sediment	CLP TCL Semivolatiles/Aroclors	
			RMS-SW45	B98R1	9/14/2011	18:17	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			UCP-SD35	B5719	9/14/2011	17:05	Sediment	CLP TCL Semivolatiles/Aroclors	
9/16/2011	874731027546	2-091611-112835-0019	UCP-SW36	B5721	9/15/2011	16:02	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			WST-RIN01	B98L3	9/15/2011	18:25	QA/QC	CLP TCL Semivolatiles	Rinsate Blank
								CLP TCL Aroclors	

Table 5
Sample Dispatch and COC Information - CHEMTECH
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	CLP Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/19/2011	868315994718	2-091911-091117-0024	RMA-WST01B	B5724	9/16/2011	10:40	Waste	CLP TCL Semivolatiles/Aroclors	pH > 11
			RMA-WST01C	B5725	9/16/2011	10:45	Waste	CLP TCL Semivolatiles/Aroclors	Field Duplicate of RMA-WST01B; pH > 11
			RMA-WST06B	B5727	9/15/2011	15:45	Waste	CLP TCL Semivolatiles/Aroclors	pH > 11
			RMA-WST12B	B5729	9/15/2011	15:00	Waste	CLP TCL Semivolatiles/Aroclors	pH > 11
	874731024753	2-091611-161158-0022	RMA-WST01A	B5723	9/16/2011	10:40	Waste	CLP TCL Semivolatiles/Aroclors	MS/MSD
			RMA-WST06A	B5726	9/16/2011	15:45	Waste	CLP TCL Semivolatiles/Aroclors	
			RMA-WST12A	B5728	9/15/2011	11:20	Waste	CLP TCL Semivolatiles/Aroclors	
			UCP-SD36	B5722	9/15/2011	16:05	Sediment	CLP TCL Semivolatiles/Aroclors	
			WST-RIN02	B98L4	9/16/2011	15:21	QA/QC	CLP TCL Semivolatiles	Rinsate Blank
								CLP TCL Aroclors	
		2-091911-155948-0027	SCA-GW02	B98T2	9/19/2011	11:25	Ground Water	CLP TCL Volatiles	
			SCA-GW04	B98T6	9/19/2011	14:06	Ground Water	CLP TCL Semivolatiles	
								CLP TCL Volatiles	
								CLP TCL Aroclors	
			SCA-GW07	B98W2	9/19/2011	15:51	Ground Water	CLP TCL Volatiles	
			SCA-TB01	B98L9	9/19/2011	10:45	QA/QC	CLP TCL Volatiles	Trip Blank
9/20/2011	874731024742	2-092011-084645-0028	MW-RIN03	B98L5	9/19/2011	19:00	QA/QC	CLP TCL Volatiles	Rinsate Blank
								CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			SCA-GW03	B98T4	9/19/2011	17:37	Ground Water	CLP TCL Volatiles	
			SCA-GW08	B98W4	9/20/2011	10:42	Ground Water	CLP TCL Volatiles	
			SCA-GW09	B98W6	9/20/2011	12:30	Ground Water	CLP TCL Volatiles	
			SCA-GW10	B98W8	9/20/2011	9:00	Ground Water	CLP TCL Volatiles	
			SCA-GW11	B98X0	9/20/2011	9:05	Ground Water	CLP TCL Volatiles	Field Duplicate of SCA-GW10
			SCA-TB02	B98M0	9/19/2011	18:00	QA/QC	CLP TCL Volatiles	Trip Blank
			WST-RIN05	B98L7	9/19/2011	7:30	QA/QC	CLP TCL Aroclors	Rinsate Blank
								CLP TCL Semivolatiles	

Table 5
Sample Dispatch and COC Information - CHEMTECH
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	CLP Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/20/2011 (cont'd)	874731024742 (cont'd)	2-092011-154832-0033	RMA-SW57	B4A18	9/20/2011	13:15	Surface Water	CLP TCL Aroclors	
								CLP TCL Semivolatiles	
			SCA-GW10	B98W8	9/20/2011	9:00	Ground Water	CLP TCL Aroclors	
								CLP TCL Semivolatiles	
			SCA-GW11	B98X0	9/20/2011	9:05	Ground Water	CLP TCL Aroclors	Field Duplicate of SCA-GW10
								CLP TCL Semivolatiles	
9/21/2011	874731024786	2-092111-105601-0035	SCA-GW01	B98T0	9/20/2011	16:41	Ground Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	MS/MSD
			SCA-GW05	B98T8	9/21/2011	9:15	Ground Water	CLP TCL Volatiles	
			SCA-TB03	B98M1	9/20/2011	18:10	QA/QC	CLP TCL Volatiles	Trip Blank
		2-092111-154225-0041	ADP-WST41B	B4A16	9/19/2011	10:15	Waste	CLP TCL Semivolatiles/Aroclors	
			ADP-WST41C	B4A17	9/19/2011	10:20	Waste	CLP TCL Semivolatiles/Aroclors	Field Duplicate of ADP-WST41B
			ADP-WST42A	B4A15	9/19/2011	10:35	Waste	CLP TCL Semivolatiles/Aroclors	MS/MSD
			ADP-WST42B	B4A25	9/19/2011	10:35	Waste	CLP TCL Semivolatiles/Aroclors	
			BG-S16A	B4A20	9/21/2011	8:10	Soil	CLP TCL Semivolatiles/Aroclors	
			RMA-SD57	B4A21	9/21/2011	10:25	Sediment	CLP TCL Semivolatiles/Aroclors	
			RMA-SD59	B4A22	9/21/2011	10:55	Sediment	CLP TCL Semivolatiles/Aroclors	
			RMA-SD62	B4A23	9/21/2011	11:20	Sediment	CLP TCL Semivolatiles/Aroclors	
			RMA-SD63	B4A24	9/21/2011	11:30	Sediment	CLP TCL Semivolatiles/Aroclors	Field Duplicate of RMA-SD62
			RMB-WST36A	B4A13	9/19/2011	9:20	Waste	CLP TCL Semivolatiles/Aroclors	
9/22/2011	868315994751	2-092111-151619-0039	SCA-GW06	B98W0	9/21/2011	11:55	Ground Water	CLP TCL Volatiles	pH > 11
								CLP TCL Semivolatiles	pH > 11
			SCA-TB04	B98M2	9/21/2011	15:15	QA/QC	CLP TCL Volatiles	Trip Blank
		2-092111-152631-0040	SCA-GW06	B98W0	9/21/2011	11:55	Ground Water	CLP TCL Aroclors	pH > 11

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/12/2011	873693948787	2-091211-154400-0001	BG-S01	9/12/2011	10:00	Soil	TAL Inorganics (incl. Hg)	
			BG-S02	9/12/2011	10:35	Soil	TAL Inorganics (incl. Hg)	
			BG-S03	9/12/2011	13:00	Soil	TAL Inorganics (incl. Hg)	
			BG-S04	9/12/2011	13:47	Soil	TAL Inorganics (incl. Hg)	
			BG-S05	9/12/2011	13:30	Soil	TAL Inorganics (incl. Hg)	
			BG-S06	9/12/2011	13:35	Soil	TAL Inorganics (incl. Hg)	Field Duplicate of BG-S05
			BG-SS02	9/12/2011	10:50	Soil	TAL Inorganics (incl. Hg)	
			MAN-SD09	9/12/2011	10:47	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD10	9/12/2011	11:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD11	9/12/2011	11:47	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SW09	9/12/2011	10:45	Surface Water	TAL Inorganics (incl. Hg)	Not preserved with HNO_3
							Chlorides	
			MAN-SW10	9/12/2011	11:20	Surface Water	TAL Inorganics (incl. Hg)	Not preserved with HNO_3
							Chlorides	
			MAN-SW11	9/12/2011	11:45	Surface Water	TAL Inorganics (incl. Hg)	Not preserved with HNO_3
							Chlorides	
9/13/2011	874731027524	2-091311-090226-0002	MAN-SD08	9/12/2011	16:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD12	9/12/2011	14:15	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/13/2011 (cont'd)	874731027524 (cont'd)	2-091311-090226-0002 (cont'd))	MAN-SD13	9/12/2011	15:33	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD14	9/12/2011	17:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD15	9/12/2011	17:05	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD16	9/12/2011	14:35	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SW08	9/12/2011	16:15	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW12	9/12/2011	14:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW13	9/12/2011	15:30	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SD-RIN06	9/12/2011	14:10	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
		2-091311-151335-0003	ACC-SD01	9/13/2011	9:57	Sediment	TAL Inorganics (incl. Hg)	MS/MSD
							Total Organic Carbon	
							Particle Size	
			ACC-SD04	9/13/2011	10:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			ACC-SD05	9/13/2011	11:10	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			ACC-SD06	9/13/2011	11:40	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/13/2011 (cont'd)	874731027524 (cont'd)	2-091311-151335-0003 (cont'd)	ACC-SD07	9/13/2011	11:50	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			ACC-SD52	9/13/2011	12:15	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
		2-091311-155400-0006	ACC-SW01	9/13/2011	9:52	Surface Water	TAL Inorganics (incl. Hg)	MS/MSD
							Chlorides	
			ACC-SW04	9/13/2011	10:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ACC-SW05	9/13/2011	11:07	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ACC-SW06	9/13/2011	11:35	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ACC-SW07	9/13/2011	11:47	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ACC-SW52	9/13/2011	12:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW14	9/12/2011	17:15	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW15	9/12/2011	17:00	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW16	9/12/2011	14:30	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
9/14/2011	873693948802	2-091411-110541-0007	BG-SD53	9/13/2011	14:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			BG-SD54	9/13/2011	14:15	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			BG-SD55	9/13/2011	14:53	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			BG-SD56	9/13/2011	15:18	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			BG-SW53	9/13/2011	14:22	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/14/2011 (cont'd)	873693948802 (cont'd)	2-091411-110541-0007 (cont'd)	BG-SW54	9/13/2011	14:12	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			BG-SW55	9/13/2011	14:47	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			BG-SW56	9/13/2011	15:15	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
9/15/2011	874731027535	2-091411-182630-0011	ADP-SW48	9/14/2011	12:18	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			ADP-SW50	9/14/2011	12:48	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			ADP-SW51	9/14/2011	13:18	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			LCP-SW26	9/14/2011	10:19	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			LCP-SW27	9/14/2011	9:57	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			LCP-SW28	9/14/2011	10:55	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			LCP-SW29	9/14/2011	10:51	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			LCP-SW30	9/14/2011	11:33	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
		2-091511-113612-0012	LCP-SD31	9/14/2011	10:50	Sediment	TAL Inorganics (incl. Hg) Total Organic Carbon	
			LCP-SD32	9/14/2011	11:20	Sediment	TAL Inorganics (incl. Hg) Total Organic Carbon	
			LCP-SD33	9/14/2011	12:05	Sediment	TAL Inorganics (incl. Hg) Total Organic Carbon	
			LCP-SW31	9/14/2011	10:44	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			LCP-SW32	9/14/2011	11:15	Surface Water	TAL Inorganics (incl. Hg) Chlorides	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/15/2011 (cont'd)	874731027535 (cont'd)	2-091511-113612-0012 (cont'd)	LCP-SW33	9/14/2011	12:00	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SD17	9/14/2011	10:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			MAN-SD20	9/14/2011	11:40	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			MAN-SD21	9/14/2011	12:35	Sediment	TAL Inorganics (incl. Hg)	MS/MSD
							Total Organic Carbon	
			MAN-SW17	9/14/2011	10:22	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW20	9/14/2011	11:30	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW21	9/14/2011	12:30	Surface Water	TAL Inorganics (incl. Hg)	MS/MSD
							Chlorides	
		2-091511-125944-0013	UCP-SD34	9/14/2011	16:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SD35	9/14/2011	17:05	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SD37	9/14/2011	17:43	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SW39	9/14/2011	17:20	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW41	9/14/2011	18:05	Surface Water	TAL Inorganics (incl. Hg)	MS/MSD
							Chlorides	
			WES-SD22	9/14/2011	16:37	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			WES-SD23	9/14/2011	16:38	Sediment	TAL Inorganics (incl. Hg)	Field Duplicate of WES-SD22
							Total Organic Carbon	
			WES-SD24	9/14/2011	17:27	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/15/2011 (cont'd)	874731027535 (cont'd)	2-091511-134842-0014	ADP-SW49	9/14/2011	12:05	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			RMS-SW45	9/14/2011	18:17	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW34	9/14/2011	16:20	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW35	9/14/2011	17:00	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW37	9/14/2011	17:38	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW40	9/14/2011	17:40	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			WES-SW22	9/14/2011	16:32	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			WES-SW23	9/14/2011	16:33	Surface Water	TAL Inorganics (incl. Hg)	Field Duplicate of WES-SW22
							Chlorides	
			WES-SW24	9/14/2011	17:22	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
		2-091511-153211-0016	MAN-SD19	9/15/2011	10:16	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			RMS-SD42	9/15/2011	9:07	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			RMS-SD43	9/15/2011	9:08	Sediment	TAL Inorganics (incl. Hg)	Field Duplicate of RMS-SD42
							Total Organic Carbon	
			RMS-SD45	9/14/2011	18:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			RMS-SD46	9/15/2011	8:28	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			RMS-SD47	9/15/2011	8:55	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SD39	9/14/2011	17:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/15/2011 (cont'd)	874731027535 (cont'd)	2-091511-153211-0016 (cont'd)	UCP-SD40	9/14/2011	17:45	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SD41	9/14/2011	18:10	Sediment	TAL Inorganics (incl. Hg)	MS/MSD
							Total Organic Carbon	
9/16/2011	874731024694	2-091611-095356-0018	UCP-SW36	9/15/2011	16:02	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW38	9/15/2011	19:34	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			WST-RIN01	9/15/2011	18:25	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
			WST-RIN02	9/16/2011	15:21	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
	874731027557	2-091411-111232-0009	ADP-SD50	9/14/2011	12:51	Sediment	Particle Size	
			BG-SD53	9/13/2011	14:25	Sediment	Particle Size	
			BG-SD54	9/13/2011	14:15	Sediment	Particle Size	
			BG-SD55	9/13/2011	14:53	Sediment	Particle Size	
			BG-SD56	9/13/2011	15:18	Sediment	Particle Size	
			LCP-SD28	9/14/2011	10:37	Sediment	Particle Size	
			LCP-SD30	9/14/2011	11:36	Sediment	Particle Size	
			LCP-SD31	9/14/2011	10:50	Sediment	Particle Size	
			LCP-SD32	9/14/2011	11:20	Sediment	Particle Size	
			LCP-SD33	9/14/2011	12:05	Sediment	Particle Size	
			MAN-SD17	9/14/2011	10:25	Sediment	Particle Size	
			MAN-SD20	9/14/2011	11:40	Sediment	Particle Size	
			MAN-SD21	9/14/2011	12:35	Sediment	Particle Size	
			UCP-SD36	9/15/2011	16:05	Sediment	Particle Size	
			UCP-SD38	9/16/2011	17:36	Sediment	Particle Size	
			WES-SD25	9/15/2011	16:57	Sediment	Particle Size	
		2-091611-084744-0017	ADP-SD48	9/14/2011	12:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			ADP-SD49	9/14/2011	12:07	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			ADP-SD50	9/14/2011	12:51	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/16/2011 (cont'd)	874731027557 (cont'd)	2-091611-084744-0017 (cont'd)	ADP-SD51	9/14/2011	13:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD26	9/14/2011	10:21	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD27	9/14/2011	10:00	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD28	9/14/2011	10:37	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD29	9/14/2011	10:54	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD30	9/14/2011	11:36	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			MAN-SW19	9/15/2011	10:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			RMS-SW42	9/15/2011	9:01	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			RMS-SW43	9/15/2011	9:02	Surface Water	TAL Inorganics (incl. Hg)	Field Duplicate of RMS-SW42
							Chlorides	
			RMS-SW46	9/15/2011	8:25	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
		2-091611-123015-0020	ADP-SD48	9/14/2011	12:20	Sediment	Particle Size	
			ADP-SD49	9/14/2011	12:07	Sediment	Particle Size	
			ADP-SD51	9/14/2011	13:20	Sediment	Particle Size	
			LCP-SD26	9/14/2011	10:21	Sediment	Particle Size	
			LCP-SD27	9/14/2011	10:00	Sediment	Particle Size	
			LCP-SD29	9/14/2011	10:54	Sediment	Particle Size	
			MAN-SD19	9/15/2011	10:16	Sediment	Particle Size	
			RMS-SD42	9/15/2011	9:07	Sediment	Particle Size	
			RMS-SD43	9/15/2011	9:08	Sediment	Particle Size	Field Duplicate of RMS-SD42
			RMS-SD45	9/14/2011	18:20	Sediment	Particle Size	
			RMS-SD46	9/15/2011	8:28	Sediment	Particle Size	
			RMS-SD47	9/15/2011	8:55	Sediment	Particle Size	
			UCP-SD34	9/14/2011	16:25	Sediment	Particle Size	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/16/2011 (cont'd)	874731027557 (cont'd)	2-091611-123015-0020 (cont'd)	UCP-SD35	9/14/2011	17:05	Sediment	Particle Size	
			UCP-SD37	9/14/2011	17:43	Sediment	Particle Size	
			UCP-SD39	9/14/2011	17:25	Sediment	Particle Size	
			UCP-SD40	9/14/2011	17:45	Sediment	Particle Size	
			UCP-SD41	9/14/2011	18:10	Sediment	Particle Size	
			WES-SD22	9/14/2011	16:37	Sediment	Particle Size	
			WES-SD23	9/14/2011	16:38	Sediment	Particle Size	Field Duplicate of WES-SD22
			WES-SD24	9/14/2011	17:27	Sediment	Particle Size	
9/19/2011	868315994729	2-091911-094707-0025	RMA-WST02B	9/15/2011	11:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST03B	9/15/2011	14:30	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST04B	9/15/2011	14:51	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST05A	9/15/2011	15:22	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST05B	9/15/2011	15:22	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST06B	9/15/2011	15:45	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST12B	9/15/2011	15:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST18B	9/15/2011	17:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
		2-091911-102614-0026	RMA-WST01B	9/16/2011	10:40	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST01C	9/16/2011	10:45	Waste	TAL Inorganics (incl. Hg)	Field Duplicate of RMA-WST01B; pH > 11
			RMA-WST07B	9/16/2011	9:50	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST08A	9/16/2011	9:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST08B	9/16/2011	9:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST10A	9/16/2011	11:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST10B	9/16/2011	11:05	Waste	TAL Inorganics (incl. Hg)	MS/MSD; pH > 11
			RMA-WST11B	9/16/2011	11:20	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST19B	9/16/2011	9:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
	874731024710	2-091611-160154-0021	RMA-WST01A	9/16/2011	10:40	Waste	TAL Inorganics (incl. Hg)	MS/MSD
			RMA-WST02A	9/15/2011	9:10	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST03A	9/15/2011	10:30	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST04A	9/15/2011	10:55	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST06A	9/16/2011	15:45	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST07A	9/16/2011	9:50	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST09A	9/16/2011	9:15	Waste	TAL Inorganics (incl. Hg)	

Table 6
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Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/19/2011 (cont'd)	874731024710 (cont'd)	2-091611-160154-0021 (cont'd)	RMA-WST09B	9/16/2011	9:15	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST11A	9/16/2011	11:20	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST11C	9/16/2011	11:25	Waste	TAL Inorganics (incl. Hg)	Field Duplicate of RMA-WST11A
			RMA-WST12A	9/15/2011	11:20	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST13A	9/15/2011	16:10	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST13B	9/15/2011	16:15	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST18A	9/15/2011	17:00	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST19A	9/16/2011	9:00	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST20A	9/15/2011	16:35	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST20B	9/15/2011	16:40	Waste	TAL Inorganics (incl. Hg)	
			UCP-SD36	9/15/2011	16:05	Sediment	Total Organic Carbon	
							TAL Inorganics (incl. Hg)	
			UCP-SD38	9/16/2011	17:36	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			WES-SD25	9/15/2011	16:57	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
9/20/2011	874731024775	2-092011-150526-0032	ADP-WST41A	9/19/2011	10:15	Waste	TAL Inorganics (incl. Hg)	
			ADP-WST41B	9/19/2011	10:15	Waste	TAL Inorganics (incl. Hg)	
			ADP-WST41C	9/19/2011	10:20	Waste	TAL Inorganics (incl. Hg)	Field Duplicate of ADP-WST41B
			ADP-WST42A	9/19/2011	10:35	Waste	TAL Inorganics (incl. Hg)	MS/MSD
			RMA-WST14A	9/16/2011	14:50	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST14B	9/16/2011	14:50	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST15A	9/16/2011	14:35	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST16A	9/16/2011	14:15	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST16B	9/16/2011	14:15	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST17A	9/16/2011	14:00	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST17B	9/16/2011	14:00	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST24A	9/19/2011	17:40	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST28A	9/19/2011	12:30	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST29A	9/19/2011	11:35	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST30A	9/19/2011	12:10	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST30B	9/19/2011	12:10	Waste	TAL Inorganics (incl. Hg)	MS/MSD

Table 6
Sample Dispatch and COC Information - DESA
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Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/20/2011 (cont'd)	874731024775 (cont'd)	2-092011-150526-0032 (cont'd)	RMB-WST32A	9/19/2011	12:45	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST34A	9/19/2011	9:35	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST36A	9/19/2011	9:20	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST38A	9/19/2011	8:35	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST39A	9/19/2011	8:00	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST39B	9/19/2011	8:00	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST40A	9/19/2011	12:00	Waste	TAL Inorganics (incl. Hg)	
9/21/2011	874731024797	2-092111-114019-0036	MW-RIN03	9/19/2011	19:00	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
							Chlorides	
			SCA-GW02	9/19/2011	11:25	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW02F	9/19/2011	11:25	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW03	9/19/2011	17:37	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW03F	9/19/2011	17:37	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW04	9/19/2011	14:06	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW04F	9/19/2011	14:06	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW07	9/19/2011	15:51	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW07F	9/19/2011	15:51	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW08	9/20/2011	10:42	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW08F	9/20/2011	10:22	Ground Water	TAL Inorganics (incl. Hg)	
			WST-RIN05	9/19/2011	7:30	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
		2-092111-143107-0038	BG-S16A	9/21/2011	8:10	Soil	TAL Inorganics (incl. Hg)	
			FBS-WST44A	9/20/2011	9:25	Waste	TAL Inorganics (incl. Hg)	
			FBS-WST45A	9/20/2011	9:35	Waste	TAL Inorganics (incl. Hg)	
			FBS-WST46A	9/20/2011	9:50	Waste	TAL Inorganics (incl. Hg)	
			RMA-SW57	9/20/2011	13:15	Surface Water	TAL Inorganics (incl. Hg)	
			SCA-GW01	9/20/2011	16:41	Ground Water	TAL Inorganics (incl. Hg)	MS/MSD
							Chlorides	
			SCA-GW01F	9/20/2011	16:41	Ground Water	TAL Inorganics (incl. Hg)	MS/MSD
			SCA-GW05	9/21/2011	9:15	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/21/2011 (cont'd)	874731024797 (cont'd)	2-092111-143107-0038 (cont'd)	SCA-GW05F	9/21/2011	9:15	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW09	9/20/2011	12:30	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW09F	9/20/2011	12:30	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW10	9/20/2011	9:00	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW10F	9/20/2011	9:00	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW11	9/20/2011	9:05	Ground Water	TAL Inorganics (incl. Hg)	Field Duplicate of SCA-GW10
							Chlorides	
			SCA-GW11F	9/20/2011	9:05	Ground Water	TAL Inorganics (incl. Hg)	Field Duplicate of SCA-GW10F
		2-092111-160146-0042	FBS-WST43A	9/21/2011	10:00	Waste	TAL Inorganics (incl. Hg)	
			RMA-SD57	9/21/2011	10:25	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD58	9/21/2011	10:38	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD59	9/21/2011	10:55	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD60	9/21/2011	11:05	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD61	9/21/2011	11:15	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD62	9/21/2011	11:20	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD63	9/21/2011	11:30	Sediment	TAL Inorganics (incl. Hg)	Field Duplicate of RMA-SD62
9/22/2011	868315914158	2-092211-102521-0046	RMB-WST22A	9/19/2011	15:20	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST22B	9/19/2011	15:22	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST23A	9/19/2011	15:55	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST23B	9/19/2011	17:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST23C	9/19/2011	17:10	Waste	TAL Inorganics (incl. Hg)	Field Duplicate of RMB-WST23B; pH > 11
			RMB-WST28B	9/19/2011	12:30	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST29B	9/19/2011	11:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST34B	9/19/2011	9:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST37A	9/19/2011	8:10	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST37B	9/19/2011	8:10	Waste	TAL Inorganics (incl. Hg)	pH > 11
	874731026138	2-092211-101644-0045	SCA-GW06	9/21/2011	11:55	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW06F	9/21/2011	11:55	Ground Water	TAL Inorganics (incl. Hg)	

Table 7
Sample Dispatch and COC Information - NAREL
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/19/2011	874731024731	2-091711-140743-0023	RMA-WST01A	9/16/2011	10:40	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	MS/MSD
			RMA-WST02A	9/15/2011	9:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST03A	9/15/2011	10:30	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST04A	9/15/2011	10:55	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST06A	9/16/2011	15:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST07A	9/16/2011	9:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST09A	9/16/2011	9:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST09B	9/16/2011	9:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST11A	9/16/2011	11:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST12A	9/15/2011	11:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST14A	9/16/2011	14:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST14B	9/16/2011	14:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST15A	9/16/2011	14:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST16A	9/16/2011	14:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST16B	9/16/2011	14:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST17A	9/16/2011	14:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST17B	9/16/2011	14:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST18A	9/15/2011	17:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST19A	9/16/2011	9:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST20A	9/15/2011	16:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
9/20/2011	874731024764	2-092011-130824-0030	ADP-WST41A	9/19/2011	10:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			ADP-WST41B	9/19/2011	10:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			ADP-WST41C	9/19/2011	10:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of ADP-WST41B
			ADP-WST42A	9/19/2011	10:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	MS/MSD
			ADP-WST42B	9/19/2011	10:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			FBS-WST44A	9/20/2011	9:25	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			FBS-WST45A	9/20/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			FBS-WST46A	9/20/2011	9:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST24A	9/19/2011	17:40	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST28A	9/19/2011	12:30	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST29A	9/19/2011	11:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST30A	9/19/2011	12:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST30B	9/19/2011	12:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	MS/MSD
			RMB-WST32A	9/19/2011	12:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST34A	9/19/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST36A	9/19/2011	9:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST38A	9/19/2011	8:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST39A	9/19/2011	8:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST39B	9/19/2011	8:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST40A	9/19/2011	12:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	

Table 7
Sample Dispatch and COC Information - NAREL
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/21/2011	868315994730	2-092011-124541-0029	RMA-WST02B	9/15/2011	11:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST04B	9/15/2011	14:51	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST05A	9/15/2011	15:22	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST05B	9/15/2011	15:22	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST06B	9/15/2011	15:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST07B	9/16/2011	9:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST08A	9/16/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST10A	9/16/2011	11:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST11B	9/16/2011	11:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST11C	9/16/2011	11:25	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of RMA-WST11A; pH > 11
			RMA-WST19B	9/16/2011	9:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
		2-092011-133530-0031	RMB-WST22A	9/19/2011	15:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST22B	9/19/2011	15:22	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST23A	9/19/2011	15:55	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST23B	9/19/2011	17:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST23C	9/19/2011	17:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of RMB-WST23B; pH > 11
			RMB-WST28B	9/19/2011	12:30	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST29B	9/19/2011	11:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST34B	9/19/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST37A	9/19/2011	8:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST37B	9/19/2011	8:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
	868315994740	2-092111-103224-0034	RMA-WST01B	9/16/2011	10:40	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST01C	9/16/2011	10:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of RMA-WST01B; pH > 11
			RMA-WST03B	9/15/2011	14:30	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST10B	9/16/2011	11:05	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	MS/MSD; pH > 11
			RMA-WST12B	9/15/2011	15:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
	874731024801	2-092111-130009-0037	ADP-SD49	9/14/2011	12:07	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S01	9/12/2011	10:00	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S07	9/20/2011	16:50	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S08	9/20/2011	17:00	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S09	9/20/2011	17:10	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S10	9/20/2011	17:15	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S11	9/20/2011	17:20	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S12	9/20/2011	17:25	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S13	9/20/2011	17:30	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	

Table 7
Sample Dispatch and COC Information - NAREL
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/21/2011 (cont'd)	874731024801 (cont'd)	2-092111-130009-0037 (cont'd)	BG-S14	9/20/2011	17:40	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S15	9/20/2011	17:45	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S16A	9/21/2011	8:10	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			LCP-SD33	9/14/2011	12:05	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST13A	9/15/2011	16:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST13B	9/15/2011	16:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST20B	9/15/2011	16:40	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST-R01A	9/21/2011	9:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST-R02A	9/21/2011	9:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMS-SD45	9/14/2011	18:20	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			UCP-SD35	9/14/2011	17:05	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			UCP-SD37	9/14/2011	17:43	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			UCP-SD39	9/14/2011	17:25	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
9/22/2011	865869642224	2-092211-112105-0047	RMA-SW57	9/20/2011	13:15	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			RMS-SW45	9/14/2011	18:17	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW01	9/20/2011	16:41	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	MS/MSD
			SW-RMA-WST12	9/15/2011	15:00	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			UCP-SW35	9/14/2011	17:00	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			UCP-SW39	9/14/2011	17:20	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
		2-092211-115537-0048	SCA-GW05	9/21/2011	9:15	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW06	9/21/2011	11:55	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	sample pH > 11; preseerved to < 11
			SCA-GW08	9/20/2011	10:42	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW10	9/20/2011	9:00	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			WST-RIN01	9/15/2011	18:25	QA/QC	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	Rinsate Blank
		2-092211-120450-0049	SCA-GW02	9/19/2011	11:25	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW07	9/19/2011	15:51	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
	868315914147	2-092211-085743-0044	RMA-WST06B(2)	9/15/2011	15:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Jar 2 of 2; pH > 11
			RMA-WST08B	9/16/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST18B	9/15/2011	17:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
	874731026116	2-092211-083246-0043	FBS-WST43A	9/21/2011	10:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD57	9/21/2011	10:25	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD58	9/21/2011	10:38	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD59	9/21/2011	10:55	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD60	9/21/2011	11:05	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD61	9/21/2011	11:15	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD62	9/21/2011	11:20	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD63	9/21/2011	11:30	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of RMA-SD62

Table 8
Stratigraphy and Aquifer Determinations from Monitoring Well Logs
St. Croix Alumina (Renaissance Park) Site

Well Name	Date Installed	Latitude	Longitude	TOC Elev (ft MSL)	Grd Elev (ft MSL)	Screen Interval (ft bgs)		Log Description of Screened Interval	Aquifer
						Top	Bottom		
G-1	1982	17.696331	-64.783892	90.42		90	105	MARL (carbonate clay/silt/sand w/limestone lenses, masses). LIMESTONE (hard/crystalline to weathered; fractures filled with sand/silt/clay); yellow to tan; moderately permeable (95')	Kingshill
G-2 *	1982	17.708152	-64.777952	21.06		20	35	interbedded LIMESTONE (fractured to very hard), coarse CARBONATE SAND/GRAVEL, and CLAY w/silt/sand/limestone chunks; white to brown, some red staining; very low permeability to permeable	Kingshill
G-3	1982	17.717438	-64.770285	81.77		85	100	interbedded CARBONATE SAND, CLAY, and CALCARENITE; white to yellow; loose to cohesive; low to moderate permeability	Kingshill
G-4	1982	17.711120	-64.768691	26.47		26	36	CARBONATE SAND/GRAVEL w/limestone lenses, minor silt/clay; lt-gray to tan; loose, permeable; void or very loose at 30'	Kingshill
G-5	1982	17.708269	-64.767664	11.25		12	20	CARBONATE SAND/GRAVEL w/minor silt/clay; thin calcarenite lens at 12'; tan, loose, permeable	Kingshill
G-6 *	1982	17.704928	-64.761185	8.81		22	30	CARBONATE SAND/GRAVEL, minor clay, shell/coral fragments; white to beige; loose, permeable (Note: lagoon clay 8'-22')	Lagoonal Clay/ Kingshill
G-7	1982	17.705982	-64.781723	25.45		25	35 **	interbedded CARBONATE SAND, CLAY, and weathered LIMESTONE; white to orange; loose to cohesive; low permeability to permeable	Kingshill
G-8	1982	17.705335	-64.783274	23.83		27	45	interbedded CLAY, CARBONATE SAND/GRAVEL, and LIMESTONE; white to orange; low to high porosity and permeability	Kingshill
G-9	1982	17.715494	-64.775525	105.59	104.02	105	125	CARBONATE SILT/SAND w/LIMESTONE chunks/lenses; occasional 1-inch clay seams; white to pale-yellow; loose to moderately cohesive; moderately to very permeable	Kingshill
G-10 *	1982	17.698325	-64.778873	10.81		15.5	23.5	CLAY w/abundant SILT, SAND, and weathered LIMESTONE chunks; brown to beige-gray; low permeability	Lagoonal Clay
G-11	1982	17.709319	-64.771478	37.89	34.61	37	55	CARBONATE SAND/GRAVEL/SILT/CLAY w/LIMESTONE chunks (porous); white to pale-gray; low permeability to loose, permeable	Kingshill
G-12 *	1982	17.708723	-64.782722	47.76		54	64	CARBONATE SAND/GRAVEL w/lge LIMESTONE chunks/lenses (weathered porous calcarenite); pink to yellow-beige; loose to very loose, permeable	Kingshill
GM-13	Jun-95	17.708611	-64.777741	23.28		5	15	SILT/CLAY, little to some fine sand, trace to little limestone fragments; brown; cohesive to slightly cohesive	Lagoonal Clay
GM-13D	Jun-95	17.708374	-64.777854	23.12	20.92	50	90 **	LIMESTONE (gravel-size fragments w/some silt); lt-gray to white-gray. CLAY/SILT, lagoonal [sic]; lt-bluish-gray (76')	Kingshill
GM-14	Jun-95	17.706175	-64.771818	10.49	7.89	8	33	SILT/CLAY, trace to little vf sand and gravel; blue-gray to lt-green-gray to brown w/black streaks; soft and cohesive to dense and moderately cohesive. LIMESTONE, weathered, silt to gravel-size; chalky white (31.5')	Lagoonal Clay/ Kingshill

* These wells are reported to have been destroyed.
** As-built depth; these wells are currently silted/blocked.

Table 8
Stratigraphy and Aquifer Determinations from Monitoring Well Logs
St. Croix Alumina (Renaissance Park) Site

Well Name	Date Installed	Latitude	Longitude	TOC Elev (ft MSL)	Grd Elev (ft MSL)	Screen Interval (ft bgs)		Log Description of Screened Interval	Aquifer
						Top	Bottom		
GM-18	Jun-95	17.699516	-64.772186	15.67		5	20	SAND and weathered LIMESTONE gravel; dk-gray. CLAY/SILT, little to some vf sand; olive-green to black (15')	Fill/Lagoonal Clay
GM-19	Jun-95	17.697751	-64.778811	11.31		4	19	CLAY/SILT, some vf-m sand, trace shell frags and weathered Limestone gravel; brown to tan, pockets of gray; soft, cohesive	Lagoonal Clay
GM-22	Jun-95	17.705347	-64.776753	35.66	32.61	12	27	SILT/f SAND/CLAY (Red Mud). SILT, some vf sand, little clay; blue-gray; very soft (22')	Fill/Lagoonal Clay
VW11	Mar-95	17.715031	-64.770194	75.74	72.99	69	79	CLAY, some Limestone clasts; brown; soft. LIMESTONE, hard (75')	Kingshill
VW16	Mar-96	17.709322	-64.770007	32.09	30.07	26.5	36.5	LIMESTONE, hard to moderate	Kingshill
VW22	Jun-96	17.711577	-64.774475	57.39	54.39	28.5	38.5	LIMESTONE, moderate. CLAY, coarse SAND, trace gravel; orange-brown to orange (30')	Kingshill
VW25	Dec-96	17.708444	-64.776234	38.04	35.74	31.5	41.5	LIMESTONE, soft; tan	Kingshill
VW27	Mar-97	17.709684	-64.772584	38	36.15	30	40	LIMESTONE, moderate; light tan	Kingshill
VW31	Aug-02	17.709888	-64.776032	38.03	35.33	30	40	weathered LIMESTONE, hard	Kingshill
VW32	Aug-02	17.710534	-64.775252	38.05	35.05	31.7	41.7	weathered LIMESTONE, moderate; blue/gray	Kingshill
VW33	Feb-03	17.710236	-64.782333	84.11	81.65	74	84	CALICHE w/CLAY; pale yellow	Kingshill
VW34	Feb-03	17.709190	-64.776859	22.24	19.98	17	27	weathered LIMESTONE. LIMESTONE w/MARL, very hard (25')	Kingshill
VW35	Feb-03	17.711453	-64.774007	59.79	57.61	53	63	LIMESTONE and CLAY. MARL LIMESTONE, hard (57')	Kingshill
VW36	Feb-03	17.708852	-64.782771	53.53	50.73	48	58	LIMESTONE and CLAY, coarse LIMESTONE chips	Kingshill
VW37	Feb-03	17.708130	-64.782588	51.86	50.24	48	58	CLAY; red-brown (48'). CALICHE w/CLAY (50')	Kingshill
MMX	Mar-90	17.712460	-64.774053	65.15	63.39	60	100	CLAY w/LIMESTONE cobbles; dense. transition zone (78'), mass fractures (80'). LIMESTONE with fractures;dense (85')	Kingshill

* These wells are reported to have been destroyed.
** As-built depth; these wells are currently silted/blocked.

Table 9
Historical Ground Water Results for Metals and Water Quality Parameters
St. Croix Alumina (Renaissance Park) Site

		Well ID	G-1		G-2		G-3		G-4		G-5		G-6		G-7	
Analyte	**MCL**	**SMCL**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**
pH (Standard Units)	none	6.5-8.5	6.8	7.5	9.49	9.7	7.72	9.3	6.5	8.82	6.7	7.9	6.5	7.5	7	8.3
Aluminum	none	200	no data		no data		ND	1,780	14,000		no data		no data		424	679
Arsenic	10	none	ND	ND	ND	196	ND	5.6	ND	5.9	ND	ND	ND	2	ND	3.7
Chromium	100	none	ND		ND	ND	ND	11.2	10	100	10		ND	330	ND	6.5
Iron	none	300	50		10		40	120	20	1,000	20		200	8,650	20	
Manganese	none	50	20	133	10	31	ND	36	ND	608	70	305	423	850	11	153
Selenium	50	none	no data		ND	ND	ND	3.8	ND		no data		ND	8	ND	3.6
Vanadium	none	none	ND	10	ND	10	ND	26.1	27.6	27.6	ND	ND	ND	ND	ND	10.2
Mercury	2	none	ND		ND	ND	ND	ND	ND		ND		ND	ND	ND	ND
Fluoride	4,000	2,000	86	820	8,400	18,000	400	1,700	120	300	270	420	260	460	160	1,800
TDS (mg/L)	none	500	810		3,690		1,700		1,840		3,030		28,400		3,000	
Chloride (mg/L)	none	250	111	149	12	1,365	157	437	318	890	408	1,350	8,530	18,900	696	960

All results are in micrograms per liter (ug/L) unless otherwise noted.
MCL = Maximum Contaminant Level
SMCL = Secondary MCL
TDS = Total Dissolved Solids
mg/L = milligrams per liter
MCL and SMCL exceedances are highlighted.

Table 9
Historical Ground Water Results for Metals and Water Quality Parameters
St. Croix Alumina (Renaissance Park) Site

		Well ID	G-8		G-9		G-10		G-11		G-12		GM-13	
Analyte	**MCL**	**SMCL**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**
pH (Standard Units)	none	6.5-8.5	7.1	7.83	7.13	7.78	6.7	7.19	1.99	10.65	6.9	8.2	7.53	12.3
Aluminum	none	200	no data		ND	61	no data		ND	420	no data		600	479,000
Arsenic	10	none	ND	ND	ND	2.1	ND	ND	ND	30	ND		ND	2,080
Chromium	100	none	ND	10	ND	2.7	ND	490	ND	160	ND		ND	307
Iron	none	300	ND		ND	40	340	400	ND	50	10		80	
Manganese	none	50	50	324	ND	30	410	710	ND	185	ND		ND	
Selenium	50	none	ND	ND	ND	5	ND		ND	ND	no data		ND	480
Vanadium	none	none	ND	10	ND	1.7	ND	90	ND	1.5	ND	10	ND	18,500
Mercury	2	none	ND	ND	ND	ND	ND		ND	ND	ND		ND	ND
Fluoride	4,000	2,000	320	9,000	90	190	300	570	450	3,500	290	1,600	64,000	
TDS (mg/L)	none	500	3,600		800	2,650	45,000		8,400	22,000	2,200		42,000	
Chloride (mg/L)	none	250	341	1,260	240	510	10,423	26,530	675	15,520	400	590	6,480	20,000

All results are in micrograms per liter (ug/L) unless otherwise noted.
MCL = Maximum Contaminant Level
SMCL = Secondary MCL
TDS = Total Dissolved Solids
mg/L = milligrams per liter
MCL and SMCL exceedances are highlighted.

Table 9
Historical Ground Water Results for Metals and Water Quality Parameters
St. Croix Alumina (Renaissance Park) Site

		Well ID	GM-13D		GM-14		GM-18		GM-19		GM-22		VW11	
Analyte	**MCL**	**SMCL**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**
pH (Standard Units)	none	6.5-8.5	9.01	11.9	5.11	8.69	8.98	9.82	7.2	7.4	12.3	12.81	7.24	8.58
Aluminum	none	200	6,700	100,000	200	17,200	ND	43,900	ND	58,700	640,000	771,000	no data	
Arsenic	10	none	190	885	ND	5.7	300	1,040	ND	9.6	2,030	5,100	no data	
Chromium	100	none	ND	6.9	ND	20.8	ND	48.2	ND	76.8	150	730	no data	
Iron	none	300	ND		ND		ND	ND	ND	ND	ND	ND	no data	
Manganese	none	50	ND		490		ND	ND	6,000	6,000	ND	ND	no data	
Selenium	50	none	ND	219	ND	50	ND	32	ND	ND	456	1,000	no data	
Vanadium	none	none	2,700	8,260	ND	102	60	341	ND	356	14,900	25,000	no data	
Mercury	2	none	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	no data	
Fluoride	4,000	2,000	9,800	37,000	410	410	52,000	168,000	ND	1,300	100,000	280,000	no data	
TDS (mg/L)	none	500	7,130	8,100	no data		15,000	16,000	34,600	40,000	27,000	28,000	no data	
Chloride (mg/L)	none	250	3,600	6,780	7,480	7,480	4,800	8,540	19,000	23,000	3,500	6,020	no data	

All results are in micrograms per liter (ug/L) unless otherwise noted.
MCL = Maximum Contaminant Level
SMCL = Secondary MCL
TDS = Total Dissolved Solids
mg/L = milligrams per liter
MCL and SMCL exceedances are highlighted.

Table 9
Historical Ground Water Results for Metals and Water Quality Parameters
St. Croix Alumina (Renaissance Park) Site

		Well ID	VW16		VW25		VW27		VW36		VW37		MMX	
Analyte	**MCL**	**SMCL**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**
pH (Standard Units)	none	6.5-8.5	5.43	8.46	5.43	8.97	5.46	10.02	6.97	7.24	5.37	8.92	5.74	8.11
Aluminum	none	200	no data		no data		no data		no data		no data		no data	
Arsenic	10	none	no data		no data		no data		no data		no data		no data	
Chromium	100	none	no data		no data		no data		no data		no data		no data	
Iron	none	300	no data		no data		no data		no data		no data		no data	
Manganese	none	50	no data		no data		no data		no data		no data		no data	
Selenium	50	none	no data		no data		no data		no data		no data		no data	
Vanadium	none	none	no data		no data		no data		no data		no data		no data	
Mercury	2	none	no data		no data		no data		no data		no data		no data	
Fluoride	4,000	2,000	no data		no data		no data		no data		no data		no data	
TDS (mg/L)	none	500	no data		no data		no data		no data		no data		no data	
Chloride (mg/L)	none	250	no data		no data		no data		no data		no data		no data	

All results are in micrograms per liter (ug/L) unless otherwise noted.
MCL = Maximum Contaminant Level
SMCL = Secondary MCL
TDS = Total Dissolved Solids
mg/L = milligrams per liter
MCL and SMCL exceedances are highlighted.

Table 10
Background Soil Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	BG-S01	BG-S05		BG-S16
Field Sample ID:	BG-S01	BG-S05	BG-S06	BG-S16A
CLP ID:	B56Z1	B56Z3	B56Z4	B4A20
Date:	9/12/2011	9/12/2011	9/12/2011	9/21/2011
Depth (inches):	0-6	0-6	0-6	42
Comments:	-	-	Dup of BG-S05	-
SVOCs				
1,1'-Biphenyl	230 UJ	240 U	240 U	210 U
1,2,4,5-Tetrachlorobenzene	230 U	240 U	240 U	210 U
2,2'-Oxybis(1-chloropropane)	230 U	240 U	240 U	210 U
2,3,4,6-Tetrachlorophenol	230 U	240 U	240 U	210 U
2,4,5-Trichlorophenol	230 U	240 U	240 U	210 U
2,4,6-Trichlorophenol	230 U	240 U	240 U	210 U
2,4-Dichlorophenol	230 U	240 U	240 U	210 U
2,4-Dimethylphenol	230 U	240 U	240 U	210 U
2,4-Dinitrophenol	440 U	460 U	460 U	410 U
2,4-Dinitrotoluene	230 U	240 U	240 U	210 U
2,6-Dinitrotoluene	230 U	240 U	240 U	210 U
2-Chloronaphthalene	230 U	240 U	240 U	210 U
2-Chlorophenol	230 U	240 U	240 U	210 U
2-Methylnaphthalene	230 U	240 U	240 U	210 U
2-Methylphenol	230 U	240 U	240 U	210 U
2-Nitroaniline	440 U	460 U	460 U	410 U
2-Nitrophenol	230 U	240 U	240 U	210 U
3,3'-Dichlorobenzidine	230 U	240 U	240 U	210 U
3-Nitroaniline	440 U	460 U	460 U	410 U
4,6-Dinitro-2-methylphenol	440 U	460 U	460 U	410 U
4-Bromophenyl-phenylether	230 UJ	240 U	240 U	210 U
4-Chloro-3-methylphenol	230 U	240 U	240 U	210 U
4-Chloroaniline	230 U	240 U	240 U	210 U
4-Chlorophenyl-phenylether	230 UJ	240 U	240 U	210 U
4-Methylphenol	230 U	240 U	240 U	210 U
4-Nitroaniline	440 U	460 U	460 U	410 U
4-Nitrophenol	440 U	460 U	460 U	410 U
Acenaphthene	230 U	240 U	240 U	210 U
Acenaphthylene	230 U	240 U	240 U	210 U
Acetophenone	230 U	240 U	240 U	210 U
Anthracene	230 U	240 U	240 U	210 U
Atrazine	230 U	240 U	240 U	210 U
Benzaldehyde	230 U	240 U	*17 J*	210 U
Benzo(a)anthracene	230 UJ	240 U	240 U	210 U
Benzo(a)pyrene	230 UJ	240 U	240 U	210 U
Benzo(b)fluoranthene	230 UJ	240 U	240 U	210 U
Benzo(g,h,i)perylene	230 UJ	240 U	240 U	210 U
Benzo(k)fluoranthene	230 UJ	240 U	240 U	210 U
Bis(2-chloroethoxy)methane	230 U	240 U	240 U	210 U
Bis(2-chloroethyl)ether	230 U	240 U	240 U	210 U
Bis(2-ethylhexyl)phthalate	230 UJ	240 U	240 U	210 U
Butylbenzylphthalate	230 UJ	240 U	240 U	210 U
Caprolactam	230 UJ	240 U	240 U	210 U
Carbazole	230 UJ	240 U	240 U	210 U
Chrysene	230 UJ	240 U	240 U	210 U

Table 10
Background Soil Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	BG-S01	BG-S05		BG-S16
Field Sample ID:	BG-S01	BG-S05	BG-S06	BG-S16A
CLP ID:	B56Z1	B56Z3	B56Z4	B4A20
Date:	9/12/2011	9/12/2011	9/12/2011	9/21/2011
Depth (inches):	0-6	0-6	0-6	42
Comments:	-	-	Dup of BG-S05	-
Dibenzo(a,h)anthracene	230 UJ	240 U	240 U	210 U
Dibenzofuran	230 UJ	240 U	240 U	210 U
Diethylphthalate	230 UJ	240 U	240 U	210 U
Dimethylphthalate	230 UJ	240 U	*69 J*	210 U
Di-n-butylphthalate	230 UJ	240 U	240 U	210 U
Di-n-octylphthalate	230 UJ	240 U	240 U	210 U
Fluoranthene	230 UJ	240 U	240 U	210 U
Fluorene	230 UJ	240 U	240 U	210 U
Hexachlorobenzene	230 U	240 U	240 U	210 U
Hexachlorobutadiene	230 U	240 U	240 U	210 U
Hexachlorocyclopentadiene	230 U	240 U	240 U	210 U
Hexachloroethane	230 U	240 U	240 U	210 U
Indeno(1,2,3-cd)pyrene	230 UJ	240 U	240 U	210 U
Isophorone	230 U	240 U	240 U	210 U
Naphthalene	230 U	240 U	240 U	210 U
Nitrobenzene	230 U	240 U	240 U	210 U
N-Nitroso-di-n-propylamine	230 U	240 U	240 U	210 U
N-Nitrosodiphenylamine	230 U	240 U	240 U	210 U
Pentachlorophenol	440 U	460 U	460 U	410 U
Phenanthrene	230 U	240 U	240 U	210 U
Phenol	230 U	*41 J*	*38 J*	210 U
Pyrene	230 UJ	240 U	240 U	210 U
Aroclors				
Aroclor-1016	44 U	46 U	46 U	41 U
Aroclor-1221	44 U	46 U	46 U	41 U
Aroclor-1232	44 U	46 U	46 U	41 U
Aroclor-1242	44 U	46 U	46 U	41 U
Aroclor-1248	44 U	46 U	46 U	41 U
Aroclor-1254	44 U	46 U	46 U	41 U
Aroclor-1260	44 U	46 U	46 U	41 U
Aroclor-1262	44 U	46 U	46 U	41 U
Aroclor-1268	44 U	46 U	46 U	41 U

All results are in micrograms per kilogram (µg/kg).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL).
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Detections below the adjusted CRQL are in *Italic* .

Table 11
Waste Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	RMA-WST01			RMA-WST06		RMA-WST12		RMB-WST36	ADP-WST41		ADP-WST42	
Field Sample ID:	RMA-WST01A	RMA-WST01B	RMA-WST01C	RMA-WST06A	RMA-WST06B	RMA-WST12A	RMA-WST12B	RMB-WST36A	ADP-WST41B	ADP-WST41C	ADP-WST42A	ADP-WST42B
CLP Sample ID:	B5723	B5724	B5725	B5726	B5727	B5728	B5729	B4A13	B4A16	B4A17	B4A15	B4A25
Date:	9/16/2011	9/16/2011	9/16/2011	9/16/2011	9/15/2011	9/15/2011	9/15/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011
Depth (inches):	0-3	48	48	0-3	36-48	0-3	36-48	0-3	36-48	36-48	0-3	36-48
Comments:	-	-	Dup of RMA-WST01B	-	-	-	-	-	-	Dup of ADP-WST41B	-	-
SVOCs												
1,1'-Biphenyl	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
1,2,4,5-Tetrachlorobenzene	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,2'-Oxybis(1-chloropropane)	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,3,4,6-Tetrachlorophenol	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,4,5-Trichlorophenol	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,4,6-Trichlorophenol	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,4-Dichlorophenol	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,4-Dimethylphenol	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,4-Dinitrophenol	370 UJ	440 UJ	440 U	400 UJ	410 UJ	470 UJ	500 U	500 U	910 U	940 UJ	460 UJ	670 U
2,4-Dinitrotoluene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,6-Dinitrotoluene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2-Chloronaphthalene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2-Chlorophenol	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2-Methylnaphthalene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2-Methylphenol	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2-Nitroaniline	370 UJ	440 UJ	440 U	400 UJ	410 UJ	470 UJ	500 U	500 U	910 U	940 UJ	460 UJ	670 U
2-Nitrophenol	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
3,3'-Dichlorobenzidine	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
3-Nitroaniline	370 UJ	440 UJ	440 U	400 UJ	410 UJ	470 UJ	500 U	500 U	910 U	940 UJ	460 UJ	670 U
4,6-Dinitro-2-methylphenol	370 U	440 U	440 U	400 UJ	410 UJ	470 U	500 U	500 UJ	910 U	940 U	460 UJ	670 U
4-Bromophenyl-phenylether	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 U	480 U	240 U	350 U
4-Chloro-3-methylphenol	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
4-Chloroaniline	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
4-Chlorophenyl-phenylether	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 U	480 U	240 U	350 U
4-Methylphenol	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
4-Nitroaniline	370 UJ	440 UJ	440 U	400 UJ	410 UJ	470 UJ	500 U	500 U	910 U	940 UJ	460 UJ	670 U
4-Nitrophenol	370 UJ	440 UJ	440 U	400 UJ	410 UJ	470 UJ	500 U	500 U	910 U	940 UJ	460 UJ	670 U
Acenaphthene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Acenaphthylene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Acetophenone	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Anthracene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Atrazine	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Benzaldehyde	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Benzo(a)anthracene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Benzo(a)pyrene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Benzo(b)fluoranthene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Benzo(g,h,i)perylene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Benzo(k)fluoranthene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Bis(2-chloroethoxy)methane	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Bis(2-chloroethyl)ether	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Bis(2-ethylhexyl)phthalate	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Butylbenzylphthalate	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Caprolactam	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Carbazole	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 U	480 U	240 U	350 U
Chrysene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Dibenzo(a,h)anthracene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ

Table 11
Waste Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	RMA-WST01			RMA-WST06		RMA-WST12		RMB-WST36	ADP-WST41		ADP-WST42	
Field Sample ID:	RMA-WST01A	RMA-WST01B	RMA-WST01C	RMA-WST06A	RMA-WST06B	RMA-WST12A	RMA-WST12B	RMB-WST36A	ADP-WST41B	ADP-WST41C	ADP-WST42A	ADP-WST42B
CLP Sample ID:	B5723	B5724	B5725	B5726	B5727	B5728	B5729	B4A13	B4A16	B4A17	B4A15	B4A25
Date:	9/16/2011	9/16/2011	9/16/2011	9/16/2011	9/15/2011	9/15/2011	9/15/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011
Depth (inches):	0-3	48	48	0-3	36-48	0-3	36-48	0-3	36-48	36-48	0-3	36-48
Comments:	-	-	Dup of RMA-WST01B	-	-	-	-	-	-	Dup of ADP-WST41B	-	-
Dibenzofuran	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 U	480 U	240 U	350 U
Diethylphthalate	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Dimethylphthalate	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Di-n-butylphthalate	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Di-n-octylphthalate	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Fluoranthene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Fluorene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 U	480 U	240 U	350 U
Hexachlorobenzene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Hexachlorobutadiene	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Hexachlorocyclopentadiene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Hexachloroethane	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Indeno(1,2,3-cd)pyrene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Isophorone	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Naphthalene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Nitrobenzene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
N-Nitroso-di-n-propylamine	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
N-Nitrosodiphenylamine	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Pentachlorophenol	370 U	440 U	440 U	400 U	410 UJ	470 U	500 U	500 U	910 U	940 U	460 U	670 U
Phenanthrene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Phenol	190 U	230 U	230 U	200 U	210 U	*30 J*	260 U	*39 J*	470 U	480 U	240 U	350 U
Pyrene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Aroclors												
Aroclor-1016	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1221	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1232	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1242	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1248	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1254	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1260	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1262	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1268	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U

All results are in micrograms per kilogram (µg/kg).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL).
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Detections below the adjusted CRQL are in*Italic* .

Table 12
Surface Water Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ACC-SW01	ACC-SW07	MAN-SW16	LCP-SW31	UCP-SW36	RMS-SW45	ADP-SW50	BG-SW53	BG-SW55	RMA-SW57
Field Sample ID:	ACC-SW01	ACC-SW07	MAN-SW16	LCP-SW31	UCP-SW36	RMS-SW45	ADP-SW50	BG-SW53	BG-SW55	RMA-SW57
CLP Sample ID:	B98S3	B98S9	B98N2	B98P7	B5721	B98R1	B98R6	B98R9	B98S1	B4A18
Date:	9/13/2011	9/13/2011	9/12/2011	9/14/2011	9/15/2011	9/14/2011	9/14/2011	9/13/2011	9/13/2011	9/20/2011
Comments:	-	-	-	-	-	-	-	-	-	-
SVOCs										
1,1'-Biphenyl	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
1,2,4,5-Tetrachlorobenzene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2,2'-Oxybis(1-chloropropane)	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
2,3,4,6-Tetrachlorophenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2,4,5-Trichlorophenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2,4,6-Trichlorophenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2,4-Dichlorophenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2,4-Dimethylphenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2,4-Dinitrophenol	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ
2,4-Dinitrotoluene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
2,6-Dinitrotoluene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
2-Chloronaphthalene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2-Chlorophenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
2-Methylnaphthalene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2-Methylphenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2-Nitroaniline	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ
2-Nitrophenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
3,3'-Dichlorobenzidine	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 UJ	5.2 UJ
3-Nitroaniline	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ
4,6-Dinitro-2-methylphenol	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
4-Bromophenyl-phenylether	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
4-Chloro-3-methylphenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
4-Chloroaniline	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 UJ	5.2 UJ
4-Chlorophenyl-phenylether	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
4-Methylphenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
4-Nitroaniline	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ
4-Nitrophenol	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Acenaphthene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Acenaphthylene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Acetophenone	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Anthracene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Atrazine	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Benzaldehyde	5.1 UJ	5.1 UJ	5.2 UJ	5.1 UJ	5.2 UJ	5.2 UJ	5.2 UJ	5.1 UJ	5.2 UJ	5.2 UJ
Benzo(a)anthracene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Benzo(a)pyrene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Benzo(b)fluoranthene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Benzo(g,h,i)perylene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Benzo(k)fluoranthene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Bis(2-chloroethoxy)methane	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Bis(2-chloroethyl)ether	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Bis(2-ethylhexyl)phthalate	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Butylbenzylphthalate	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U

Table 12
Surface Water Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ACC-SW01	ACC-SW07	MAN-SW16	LCP-SW31	UCP-SW36	RMS-SW45	ADP-SW50	BG-SW53	BG-SW55	RMA-SW57
Field Sample ID:	**ACC-SW01**	**ACC-SW07**	**MAN-SW16**	**LCP-SW31**	**UCP-SW36**	**RMS-SW45**	**ADP-SW50**	**BG-SW53**	**BG-SW55**	**RMA-SW57**
CLP Sample ID:	**B98S3**	**B98S9**	**B98N2**	**B98P7**	**B5721**	**B98R1**	**B98R6**	**B98R9**	**B98S1**	**B4A18**
Date:	**9/13/2011**	**9/13/2011**	**9/12/2011**	**9/14/2011**	**9/15/2011**	**9/14/2011**	**9/14/2011**	**9/13/2011**	**9/13/2011**	**9/20/2011**
Comments:	-	-	-	-	-	-	-	-	-	-
Caprolactam	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Carbazole	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Chrysene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Dibenzo(a,h)anthracene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Dibenzofuran	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Diethylphthalate	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	*1.3 J*	*1.3 J*	5.1 U	5.2 U	5.2 U
Dimethylphthalate	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	**11 J**	**15 J**	5.1 U	5.2 U	**18**
Di-n-butylphthalate	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Di-n-octylphthalate	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Fluoranthene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Fluorene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Hexachlorobenzene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Hexachlorobutadiene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Hexachlorocyclopentadiene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 UJ	5.2 UJ
Hexachloroethane	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Indeno(1,2,3-cd)pyrene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Isophorone	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Naphthalene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Nitrobenzene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
N-Nitroso-di-n-propylamine	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
N-Nitrosodiphenylamine	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Pentachlorophenol	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Phenanthrene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Phenol	5.1 UJ	5.1 UJ	5.2 UJ	5.1 UJ	5.2 UJ	5.2 UJ	5.2 UJ	5.1 UJ	5.2 UJ	5.2 UJ
Pyrene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Aroclors										
Aroclor-1016	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1221	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1232	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1242	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1248	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1254	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1260	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1262	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1268	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U

All results are in micrograms per liter (µg/L).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL).
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Detections below the adjusted CRQL are in *Italic* .
Detections above the adjusted CRQL are in **BOLD**.

Table 13
Sediment Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ACC-SW01	ACC-SW07	MAN-SW16	LCP-SW31	UCP-SW35	UCP-SW36	RMS-SW45	ADP-SW50	BG-SW53	BG-SW55	RMA-SD57	RMA-SD59	RMA-SD62	
Field Sample ID:	**ACC-SD01**	**ACC-SD07**	**MAN-SD16**	**LCP-SD31**	**UCP-SD35**	**UCP-SD36**	**RMS-SD45**	**ADP-SD50**	**BG-SD53**	**BG-SD55**	**RMA-SD57**	**RMA-SD59**	**RMA-SD62**	**RMA-SD63**
CLP Sample ID:	**B56Z5**	**B56Z8**	**B56Z9**	**B5718**	**B5719**	**B5722**	**B5720**	**B5715**	**B5716**	**B5717**	**B4A21**	**B4A22**	**B4A23**	**B4A24**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Date:	**9/13/2011**	**9/13/2011**	**9/12/2011**	**9/14/2011**	**9/14/2011**	**9/15/2011**	**9/14/2011**	**9/14/2011**	**9/13/2011**	**9/13/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**
Comments:	-	-	-	-	-	-	-	-	-	-	-	-	-	**Dup of RMA-SD62**
SVOCs														
1,1'-Biphenyl	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
1,2,4,5-Tetrachlorobenzene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,2'-Oxybis(1-chloropropane)	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,3,4,6-Tetrachlorophenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,4,5-Trichlorophenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,4,6-Trichlorophenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,4-Dichlorophenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,4-Dimethylphenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,4-Dinitrophenol	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 UJ	470 U	500 U	420 U	470 U	400 U	410 U
2,4-Dinitrotoluene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,6-Dinitrotoluene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2-Chloronaphthalene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2-Chlorophenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2-Methylnaphthalene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2-Methylphenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2-Nitroaniline	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 UJ	470 U	500 U	420 U	470 U	400 U	410 U
2-Nitrophenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
3,3'-Dichlorobenzidine	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
3-Nitroaniline	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 UJ	470 U	500 U	420 U	470 U	400 U	410 U
4,6-Dinitro-2-methylphenol	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 U	470 U	500 U	420 U	470 U	400 U	410 U
4-Bromophenyl-phenylether	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
4-Chloro-3-methylphenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
4-Chloroaniline	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
4-Chlorophenyl-phenylether	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
4-Methylphenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
4-Nitroaniline	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 UJ	470 U	500 U	420 U	470 U	400 U	410 U
4-Nitrophenol	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 UJ	470 U	500 U	420 U	470 U	400 U	410 U
Acenaphthene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Acenaphthylene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Acetophenone	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Anthracene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Atrazine	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Benzaldehyde	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Benzo(a)anthracene	220 U	**360**	260 UJ	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Benzo(a)pyrene	220 U	*130 J*	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Benzo(b)fluoranthene	220 U	**310**	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Benzo(g,h,i)perylene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Benzo(k)fluoranthene	220 U	*91 J*	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Bis(2-chloroethoxy)methane	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Bis(2-chloroethyl)ether	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Bis(2-ethylhexyl)phthalate	220 U	*180 J*	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Butylbenzylphthalate	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Caprolactam	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Carbazole	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Chrysene	220 U	**320**	260 UJ	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Dibenzo(a,h)anthracene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Dibenzofuran	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Diethylphthalate	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Dimethylphthalate	220 U	*80 J*	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U

Table 13
Sediment Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ACC-SW01	ACC-SW07	MAN-SW16	LCP-SW31	UCP-SW35	UCP-SW36	RMS-SW45	ADP-SW50	BG-SW53	BG-SW55	RMA-SD57	RMA-SD59	RMA-SD62	
Field Sample ID:	ACC-SD01	ACC-SD07	MAN-SD16	LCP-SD31	UCP-SD35	UCP-SD36	RMS-SD45	ADP-SD50	BG-SD53	BG-SD55	RMA-SD57	RMA-SD59	RMA-SD62	RMA-SD63
CLP Sample ID:	B56Z5	B56Z8	B56Z9	B5718	B5719	B5722	B5720	B5715	B5716	B5717	B4A21	B4A22	B4A23	B4A24
Depth (inches):	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Date:	9/13/2011	9/13/2011	9/12/2011	9/14/2011	9/14/2011	9/15/2011	9/14/2011	9/14/2011	9/13/2011	9/13/2011	9/21/2011	9/21/2011	9/21/2011	9/21/2011
Comments:	-	-	-	-	-	-	-	-	-	-	-	-	-	Dup of RMA-SD62
Di-n-butylphthalate	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Di-n-octylphthalate	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Fluoranthene	220 U	**970**	260 UJ	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Fluorene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Hexachlorobenzene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Hexachlorobutadiene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Hexachlorocyclopentadiene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Hexachloroethane	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Indeno(1,2,3-cd)pyrene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Isophorone	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Naphthalene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Nitrobenzene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
N-Nitroso-di-n-propylamine	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
N-Nitrosodiphenylamine	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Pentachlorophenol	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 U	470 U	500 U	420 U	470 U	400 U	410 U
Phenanthrene	220 U	**480**	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Phenol	*34 J*	*78 J*	260 U	710 UJ	350 U	330 U	230 U	400 U	*31 J*	260 U	210 U	240 U	210 U	210 U
Pyrene	220 U	**770**	260 UJ	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Aroclors														
Aroclor-1016	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1221	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1232	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1242	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1248	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1254	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1260	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1262	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1268	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U

All results are in micrograms per kilogram (µg/kg).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL).
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Detections below the adjusted CRQL are in *Italic* .
Detections above the adjusted CRQL are in **BOLD**.

Table 14
Ground Water Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	VW37	G-11	GM-22	GM-18	
Field Sample ID:	SCA-GW01	SCA-GW04	SCA-GW06	SCA-GW10	SCA-GW11
CLP Sample ID:	B98T0	B98T6	B98W0	B98W8	B98X0
Date:	9/20/2011	9/19/2011	9/21/2011	9/20/2011	9/20/2011
Comments:	-	-	-	-	Dup of SCA-GW10
SVOCs					
1,1'-Biphenyl	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
1,2,4,5-Tetrachlorobenzene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,2'-Oxybis(1-chloropropane)	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,3,4,6-Tetrachlorophenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,4,5-Trichlorophenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,4,6-Trichlorophenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,4-Dichlorophenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,4-Dimethylphenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,4-Dinitrophenol	10 UJ	10 UJ	10 U	10 UJ	10 UJ
2,4-Dinitrotoluene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,6-Dinitrotoluene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2-Chloronaphthalene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2-Chlorophenol	5.2 U	5.1 U	*0.56 J*	5.1 U	5.2 U
2-Methylnaphthalene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2-Methylphenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2-Nitroaniline	10 UJ	10 UJ	10 U	10 UJ	10 UJ
2-Nitrophenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
3,3'-Dichlorobenzidine	5.2 U	5.1 U	5.1 UJ	5.1 U	5.2 U
3-Nitroaniline	10 UJ	10 UJ	10 U	10 UJ	10 UJ
4,6-Dinitro-2-methylphenol	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
4-Chloro-3-methylphenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
4-Chloroaniline	5.2 U	5.1 U	5.1 UJ	5.1 U	5.2 U
4-Chlorophenyl-phenylether	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
4-Methylphenol	5.2 U	5.1 U	*3.3 J*	5.1 U	5.2 U
4-Nitroaniline	10 UJ	10 UJ	10 U	10 UJ	10 UJ
4-Nitrophenol	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Acenaphthene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Acenaphthylene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Acetophenone	5.2 U	5.1 U	*4.4 J*	5.1 U	5.2 U
Anthracene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Atrazine	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Benzaldehyde	5.2 UJ	5.1 UJ	5.1 U	5.1 UJ	5.2 UJ
Benzo(a)anthracene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Benzo(a)pyrene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Benzo(b)fluoranthene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Benzo(g,h,i)perylene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Benzo(k)fluoranthene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Bis(2-chloroethoxy)methane	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Bis(2-chloroethyl)ether	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Bis(2-ethylhexyl)phthalate	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Butylbenzylphthalate	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Caprolactam	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Carbazole	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Chrysene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Dibenzo(a,h)anthracene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Dibenzofuran	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Diethylphthalate	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U

Table 14
Ground Water Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	VW37	G-11	GM-22	GM-18	
Field Sample ID:	SCA-GW01	SCA-GW04	SCA-GW06	SCA-GW10	SCA-GW11
CLP Sample ID:	B98T0	B98T6	B98W0	B98W8	B98X0
Date:	9/20/2011	9/19/2011	9/21/2011	9/20/2011	9/20/2011
Comments:	-	-	-	-	Dup of SCA-GW10
Dimethylphthalate	*2.1 J*	5.1 U	5.1 U	*0.83 J*	*1.2 J*
Di-n-butylphthalate	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Di-n-octylphthalate	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Fluoranthene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Fluorene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Hexachlorobenzene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Hexachlorobutadiene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Hexachlorocyclopentadiene	5.2 U	5.1 U	5.1 UJ	5.1 U	5.2 U
Hexachloroethane	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Indeno(1,2,3-cd)pyrene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Isophorone	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Naphthalene	5.2 U	5.1 U	5.1 U	5.1 U	*0.45 J*
Nitrobenzene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
N-Nitroso-di-n-propylamine	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
N-Nitrosodiphenylamine	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Pentachlorophenol	10 U	10 U	10 U	10 U	10 U
Phenanthrene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Phenol	5.2 UJ	5.1 UJ	**15 J**	5.1 UJ	5.2 UJ
Pyrene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Aroclors					
Aroclor-1016	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1221	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1232	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1242	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1248	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1254	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1260	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1262	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1268	1 U	1 U	4 UJ	1 U	1 U

All results are in micrograms per liter (µg/L).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL)
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Detections below the adjusted CRQL are in *Italic* .
Detections above the adjusted CRQL are in **BOLD**.

Table 15
Ground Water and Blank Sampling Results - Volatile Organic Compounds
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	VW37	G-9	VW16	G-11	GM-13D	GM-22	VW25	GM-14	GM-19	GM-18		MW-RIN03	SCA-TB01	SCA-TB02	SCA-TB03	SCA-TB04
Field Sample ID:	SCA-GW01	SCA-GW02	SCA-GW03	SCA-GW04	SCA-GW05	SCA-GW06	SCA-GW07	SCA-GW08	SCA-GW09	SCA-GW10	SCA-GW11	MW-RIN03	SCA-TB01	SCA-TB02	SCA-TB03	SCA-TB04
CLP Sample ID:	B98T0	B98T2	B98T4	B98T6	B98T8	B98W0	B98W2	B98W4	B98W6	B98W8	B98X0	B98L5	B98L9	B98M0	B98M1	B98M2
Date:	9/20/2011	9/19/2011	9/19/2011	9/19/2011	9/21/2011	9/21/2011	9/19/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/19/2011	9/19/2011	9/19/2011	9/20/2011	9/21/2011
Comments:	-	-	-	-	-	-	-	-	-	-	Dup of SCA-GW10	bladder pump	-	-	-	-
VOCs																
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**20**	**19**	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**30**	**29**	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R
2-Butanone	10 U	10 U	10 U	10 U	10 U	**39**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	**18**	10 U	10 U	10 U	10 U	10 U	10 U	*1.7 J*	10 U	10 U	10 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U	10 U	*8 J*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	10 U	10 U	10 U	10 U	10 U	**480**	10 U	10 U	10 U	10 U	10 U	10 U	*8.8 J*	*9.5 J*	10 U	10 U
Benzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**15**	**16**	5 U	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	*1.6 J*	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ
Cyclohexane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
m,p-Xylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl acetate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-Butyl ether	5 U	5 U	*1.2 J*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
o-Xylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	*1.1 J*	*1.2 J*	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ
Trichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

All results are in micrograms per liter (µg/L).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL).
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
Detections below the adjusted CRQL are in *Italic* .
Detections above the adjusted CRQL are in **BOLD**.

Table 16
Rinsate Blank Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	WST-RIN01	WST-RIN02	MW-RIN03	WST-RIN05
Field Sample ID:	WST-RIN01	WST-RIN02	MW-RIN03	WST-RIN05
CLP ID:	B98L3	B98L4	B98L5	B98L7
Date:	9/15/2011	9/16/2011	9/19/2011	9/19/2011
Comments:	hand auger	hand auger	bladder pump	hand auger
SVOCs				
1,1'-Biphenyl	5.2 U	5.1 UJ	5.2 U	5.1 U
1,2,4,5-Tetrachlorobenzene	5.2 U	5.1 UJ	5.2 U	5.1 U
2,2'-Oxybis(1-chloropropane)	5.2 U	5.1 UJ	5.2 U	5.1 U
2,3,4,6-Tetrachlorophenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2,4,5-Trichlorophenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2,4,6-Trichlorophenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2,4-Dichlorophenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2,4-Dimethylphenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2,4-Dinitrophenol	10 UJ	10 UJ	10 UJ	10 UJ
2,4-Dinitrotoluene	5.2 U	5.1 UJ	5.2 U	5.1 U
2,6-Dinitrotoluene	5.2 U	5.1 UJ	5.2 U	5.1 U
2-Chloronaphthalene	5.2 U	5.1 UJ	5.2 UJ	5.1 U
2-Chlorophenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2-Methylnaphthalene	5.2 U	5.1 UJ	5.2 UJ	5.1 U
2-Methylphenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2-Nitroaniline	10 UJ	10 UJ	10 UJ	10 UJ
2-Nitrophenol	5.2 U	5.1 UJ	5.2 U	5.1 U
3,3'-Dichlorobenzidine	5.2 U	5.1 UJ	5.2 UJ	5.1 UJ
3-Nitroaniline	10 UJ	10 UJ	10 UJ	10 UJ
4,6-Dinitro-2-methylphenol	10 U	10 UJ	10 U	10 U
4-Bromophenyl-phenylether	5.2 U	5.1 UJ	5.2 U	5.1 U
4-Chloro-3-methylphenol	5.2 U	*0.71 J*	*0.75 J*	5.1 U
4-Chloroaniline	5.2 U	5.1 UJ	5.2 UJ	5.1 UJ
4-Chlorophenyl-phenylether	5.2 U	5.1 UJ	5.2 U	5.1 U
4-Methylphenol	5.2 U	5.1 UJ	5.2 U	5.1 U
4-Nitroaniline	10 UJ	10 UJ	10 UJ	10 UJ
4-Nitrophenol	10 UJ	10 UJ	10 UJ	10 UJ
Acenaphthene	5.2 U	5.1 UJ	5.2 UJ	5.1 U
Acenaphthylene	5.2 U	5.1 UJ	5.2 UJ	5.1 U
Acetophenone	5.2 U	5.1 UJ	5.2 U	5.1 U
Anthracene	5.2 U	5.1 UJ	5.2 U	5.1 U
Atrazine	5.2 U	5.1 UJ	5.2 U	5.1 U
Benzaldehyde	*0.54 J*	*0.56 J*	*0.62 J*	5.1 UJ
Benzo(a)anthracene	5.2 U	5.1 UJ	5.2 U	5.1 U
Benzo(a)pyrene	5.2 U	5.1 UJ	5.2 U	5.1 U
Benzo(b)fluoranthene	5.2 U	5.1 UJ	5.2 U	5.1 U
Benzo(g,h,i)perylene	5.2 U	5.1 UJ	5.2 U	5.1 U
Benzo(k)fluoranthene	5.2 U	5.1 UJ	5.2 U	5.1 U
Bis(2-chloroethoxy)methane	5.2 U	5.1 UJ	5.2 U	5.1 U
Bis(2-chloroethyl)ether	5.2 U	5.1 UJ	5.2 U	5.1 U
Bis(2-ethylhexyl)phthalate	5.2 U	5.1 UJ	5.2 U	5.1 U
Butylbenzylphthalate	5.2 U	5.1 UJ	5.2 U	5.1 U
Caprolactam	5.2 U	5.1 UJ	5.2 U	5.1 U
Carbazole	5.2 U	5.1 UJ	5.2 U	5.1 U
Chrysene	5.2 U	5.1 UJ	5.2 U	5.1 U
Dibenzo(a,h)anthracene	5.2 U	5.1 UJ	5.2 U	5.1 U

Table 16
Rinsate Blank Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	WST-RIN01	WST-RIN02	MW-RIN03	WST-RIN05
Field Sample ID:	WST-RIN01	WST-RIN02	MW-RIN03	WST-RIN05
CLP ID:	B98L3	B98L4	B98L5	B98L7
Date:	9/15/2011	9/16/2011	9/19/2011	9/19/2011
Comments:	hand auger	hand auger	bladder pump	hand auger
Dibenzofuran	5.2 U	5.1 UJ	5.2 U	5.1 U
Diethylphthalate	5.2 U	5.1 UJ	5.2 U	5.1 U
Dimethylphthalate	5.2 U	5.1 UJ	5.2 U	5.1 U
Di-n-butylphthalate	5.2 U	5.1 UJ	5.2 U	5.1 U
Di-n-octylphthalate	5.2 U	5.1 UJ	5.2 U	5.1 U
Fluoranthene	5.2 U	5.1 UJ	5.2 U	5.1 U
Fluorene	5.2 U	5.1 UJ	5.2 U	5.1 U
Hexachlorobenzene	5.2 U	5.1 UJ	5.2 U	5.1 U
Hexachlorobutadiene	5.2 U	5.1 UJ	5.2 U	5.1 U
Hexachlorocyclopentadiene	5.2 U	5.1 UJ	5.2 UJ	5.1 UJ
Hexachloroethane	5.2 U	5.1 UJ	5.2 U	5.1 U
Indeno(1,2,3-cd)pyrene	5.2 U	5.1 UJ	5.2 U	5.1 U
Isophorone	5.2 U	5.1 UJ	5.2 U	5.1 U
Naphthalene	5.2 U	5.1 UJ	5.2 UJ	5.1 U
Nitrobenzene	5.2 U	5.1 UJ	5.2 U	5.1 U
N-Nitroso-di-n-propylamine	5.2 U	5.1 UJ	5.2 U	5.1 U
N-Nitrosodiphenylamine	5.2 U	5.1 UJ	5.2 U	5.1 U
Pentachlorophenol	10 U	10 UJ	10 U	10 U
Phenanthrene	5.2 U	5.1 UJ	5.2 U	5.1 U
Phenol	5.2 UJ	5.1 UJ	5.2 UJ	5.1 UJ
Pyrene	5.2 U	5.1 UJ	5.2 U	5.1 U
Aroclors				
Aroclor-1016	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1221	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1232	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1242	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1248	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1254	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1260	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1262	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1268	1 UJ	1 UJ	1 U	1 UJ

All results are in micrograms per liter (µg/L).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL).
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Detections below the adjusted CRQL are in*Italic* .

Table 17
Minimum and Maximum Values for pH and Contaminants of Concern per Investigated Area
St. Croix Alumina (Renaissance Park) Site - September 2011

Solid Samples	pH		Arsenic		Chromium		Mercury		Selenium		Vanadium	
	Std. Units		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
Background Soil												
Surface	6.96	7.80	2.6	5.0	8.2	48	ND	0.128	ND	ND	10	64
Subsurface	7.72	7.81	2.9	4.9	28	36	ND	0.075	ND	ND	35	110
Red Mud Area A												
Surface	9.45	12.05	3.6	16	280	870	0.138	0.422	ND	16	490	1,300
Subsurface	10.12	12.52	3.3	15	250	1,500	0.076	0.513	ND	ND	470	790
RMA Depositional Area												
Surface	7.52	10.48	7.8	18	180	410	0.137	0.469	ND	3.7	400	980
Subsurface	n/a		n/a		n/a		n/a		n/a		n/a	
Red Mud Area B												
Surface	8.06	12.35	ND	21	16	1,800	ND	0.348	ND	3.1	37	1,300
Subsurface	9.89	12.59	7.4	17	180	970	ND	0.075	ND	ND	470	790
Ash Disposal Pond												
Surface	9.83	10.17	30	35	19	23	0.094	0.218	8.9	10	81	99
Subsurface	6.83	8.27	5.6	13	7.3	9.5	ND	ND	10	11	22	31
Sediment	8.99	9.50	8.5	21	16	96	ND	0.461	ND	ND	62	170
Former Bauxite Shed												
Surface	9.02	10.93	6.3	47	99	240	0.098	0.236	ND	3.2	180	660
Subsurface	n/a		n/a		n/a		n/a		n/a		n/a	
Background SW/SD												
Sediment	7.56	8.20	1.2	5.5	9.6	27	ND	ND	ND	ND	18	110
Red Mud Settling Pond												
Sediment	9.68	10.48	7.0	15	360	480	0.14	0.338	ND	2.7	370	1,100
Upper Cooling Pond												
Sediment	7.69	10.20	8.1	26	220	550	0.076	0.314	ND	ND	330	640
Lower Cooling Pond												
Sediment	7.30	8.58	5.2	34	35	570	ND	ND	ND	2.9	110	590
West Ditch												
Sediment	7.68	8.38	4.0	8.1	33	160	ND	0.049	ND	ND	110	210
AluCroix Channel												
Sediment	7.21	8.55	2.2	12	7.0	51	ND	0.062	ND	3.4	8.2	130
Coastal Mangroves												
Sediment	7.31	8.65	2.8	18	3.9	140	ND	ND	ND	ND	10	210

Table 17
Minimum and Maximum Values for pH and Contaminants of Concern per Investigated Area
St. Croix Alumina (Renaissance Park) Site - September 2011

Aqueous Samples	Ph (Std. Units)		Arsenic		Chromium		Mercury		Selenium		Vanadium	
	Std. Units		µg/L		µg/L		µg/L		µg/L		µg/L	
	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
Red Mud Area A												
Surface Water	10.43	10.55	150		2,900		0.710		54		5,200	
Ash Disposal Pond												
Surface Water	9.57	9.65	150	160	ND	ND	ND	ND	ND	ND	190	210
Background SW/SD												
Surface Water	6.98	7.89	ND	85	ND	75	ND	ND	ND	ND	ND	270
Red Mud Settling Pond												
Surface Water	9.53	10.10	29	160	430	16,000	ND	ND	ND	650	1,300	4,500
Upper Cooling Pond												
Surface Water	8.17	9.88	ND	27	150	780	ND	ND	ND	37	45	1,500
Lower Cooling Pond												
Surface Water	8.05	10.16	19	220	ND	240	ND	ND	ND	25	130	2,200
West Ditch												
Surface Water	8.05	8.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AluCroix Channel												
Surface Water	7.55	9.31	ND	11	ND	ND	ND	ND	ND	ND	ND	ND
Coastal Mangroves												
Surface Water	7.62	9.06	ND	41	ND	71	ND	ND	ND	ND	ND	110
Ground Water												
Fill/Clay/Leachate (unfiltered)	7.40	12.78	ND	2,700	ND	1,400	ND	0.501	ND	350	ND	18,000
Fill/Clay/Leachate (filtered)	n/a		ND	2,800	ND	1,300	ND	0.468	ND	360	ND	18,000
Kingshill Aquifer (unfiltered)	6.72	7.76	ND	17 J	ND	41	ND	ND	ND	ND	ND	77
Kingshill Aquifer (filtered)	n/a		ND	8.3 J	ND	ND	ND	ND	ND	ND	ND	42

Table 18
Background Soil Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**BG-S01**	**BG-S02**		**BG-S03**	**BG-S04**	**BG-S05**	**BG-S06**	**BG-S16**
Field Sample ID:	**BG-S01**	**BG-S02**	**BG-SS02**	**BG-S03**	**BG-S04**	**BG-S05**	**BG-S06**	**BG-S16A**
Date:	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/21/2011**
Depth (inches):	**0-6**	**0-6**	**16**	**0-6**	**0-6**	**0-6**	**0-6**	**42**
Comments:	**-**	**-**	**-**	**-**	**-**	**-**	**Dup of BG-S05**	**-**
pH (Standard Units)	7.80	7.42	7.72	7.03	7.50	7.50	7.50	7.81
Inorganics								
Aluminum	3,100	25,000	27,000	30,000	30,000	19,000	17,000	23,000
Antimony	1.7 U	1.9 U	1.9 U	1.9 U	2.1 U	1.7 U	1.8 U	2.1 U
Arsenic	**3.7**	**5.0**	**4.9**	**4.8**	**4.4**	**2.6**	**2.7**	**2.9**
Barium	61	73	79	89	82	75	73	120
Beryllium	0.25 U	0.28 U	0.29 U	0.28 U	0.31 U	0.34	0.35	0.32 U
Cadmium	0.25 U	0.28 U	0.29 U	0.28 U	0.31 U	0.26 U	0.28 U	0.32 U
Calcium	340,000 D^{10}	150,000 D^{10}	160,000 D^{10}	83,000	88,000	210,000 D^{10}	210,000 D^{10}	15,000
Chromium	**8.2**	**35**	**36**	**38**	**48**	**22**	**20**	**28**
Cobalt	1.7	10	11	12	11	8.5	8.1	20
Copper	13 K	38	36	45	31	33	32	59
Iron	3,400	21,000	21,000	23,000	27,000	14,000	13,000	30,000
Lead	49	13	9.3	19	13	15	14	5.8
Magnesium	4,000	5,100	5,300	5,100	5,500	8,000	7,700	6,500
Manganese	68	690	720	730	670	500	470	1,200 J
Nickel	5.3	19	18	25	17	19	18	14
Potassium	610	5,600	6,100	7,800	6,700	5,800	5,400	2,400
Selenium	1.7 U	1.9 U	1.9 U	1.9 U	2.1 U	1.7 U	1.8 U	2.1 U
Silver	0.42 U	0.47 U	0.49 U	0.46 U	0.52 U	0.44 U	0.46 U	0.53 U
Sodium	290 J	170	190	160	130	200	190	890
Thallium	1.7 U	1.9 U	1.9 U	1.9 U	2.1 U	1.7 U	1.8 U	2.1 UJ
Vanadium	**10**	**40**	**35**	**53**	**64**	**34**	**32**	**110**
Zinc	65 J	70	39	94	57	100	97	47
Mercury	**0.128 K**	**0.083**	**0.075**	**0.072**	0.048 U	0.045 U	0.044 U	0.051 U

All results are in miligrams per kilogram (mg/kg) unless ohterwise noted.
U = The anlyte was not detected at or above the Reporting Limit.
J = The identification of the analyte ia acceptable; the reported value is an estimate.
K = The identification of the analyte is acceptable; the reported value may be biased high.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in**BOLD**.

Table 19
RMA Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**RMA-WST01**			**RMA-WST02**		**RMA-WST03**		**RMA-WST04**		**RMA-WST05**	
Field Sample ID:	**RMA-WST01A**	**RMA-WST01B**	**RMA-WST01C**	**RMA-WST02A**	**RMA-WST02B**	**RMA-WST03A**	**RMA-WST03B**	**RMA-WST04A**	**RMA-WST04B**	**RMA-WST05A**	**RMA-WST05B**
Date:	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**
Depth (inch):	**0-3**	**48**	**48**	**0-3**	**24-48**	**0-3**	**54**	**0-3**	**48**	**0-3**	**36-48**
Comments:	-	-	**Dup of RMA-WST01B**	-	-	-	-	-	-	-	-
pH (Standard Units)	9.45	11.11	11.14	10.66	11.88	10.81	12.47	10.57	12.52	11.25	12.33
Inorganics											
Aluminum	36,000 D^{2}	65,000	83,000 D^{10}	93,000	86,000	86,000	85,000	100,000 D^{25}	92,000	75,000	90,000
Antimony	4.2 UJD^{2}	1.8 U	**3.1**	2.3 U	2.3 U	2.5 U	2.4 U	2.4 U	**3.2**	2.3 U	2.5 U
Arsenic	**16** D^{2}	**8.8**	**9.2**	**6.5**	**8.8**	**5.8**	**9.7**	**7.1**	**9.2**	**11**	**9.7**
Barium	21 UD^{2}	62	88	72	76	64	76	42	67	100	120
Beryllium	0.63 UD^{2}	0.26 U	0.27 U	0.35 U	0.35 U	0.38 U	0.42	0.36 U	0.36 U	0.34 U	0.37 U
Cadmium	**0.72** D^{2}	**0.83**	**1.5**	**0.41**	**0.67**	0.38 U	**0.69**	**0.54**	**1.4**	**0.54**	**0.51**
Calcium	9,600 D^{2}	88,000	24,000	11,000	13,000	14,000	11,000	7,800	8,400	8,800	7,100
Chromium	**310** D^{2}	**310**	**420**	**510**	**430**	**670**	**500**	**350**	**270**	**760**	**530**
Cobalt	4.2 UD^{2}	1.8 U	1.8 U	2.3 U	2.3 U	2.5 U	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U
Copper	12 D^{2}	11	11	14	10	14	12	9.0	4.9	9.1	7.2
Iron	380,000 D^{25}	170,000 D^{10}	210,000 D^{10}	210,000 D^{25}	210,000 D^{10}	190,000 D^{25}	210,000 D^{10}	250,000 D^{25}	250,000 D^{10}	180,000 D^{10}	200,000 D^{10}
Lead	39 D^{2}	30	38	29	31	34	37	20	19	43	37
Magnesium	2,500 D^{2}	6,100	4,700	480	710	700	640	670	910	550	680
Manganese	430 D^{2}	210	140	27	31	41	54	17	14	25	17
Nickel	9.3 JD^{2}	9.0	11	7.6	11	7.1	11	4.2	9.3	9.6	9.9
Potassium	240 JD^{2}	480	530	550	600	800	540	750	630	590	390
Selenium	4.2 UD^{2}	1.8 U	1.8 U	**2.6**	2.3 U	**4.6**	2.4 U	**3.1**	2.4 U	2.3 U	2.5 U
Silver	1.1 UD^{2}	0.44 U	0.44 U	**0.87**	0.58 U	**1.1**	0.59 U	**1.4**	0.60 U	0.56 U	0.61 U
Sodium	4,400 D^{2}	29,000	39,000	64,000	56,000	65,000	50,000	60,000	57,000	62,000	60,000
Thallium	4.2 UJD^{2}	1.8 U	1.8 U	2.3 U	2.3 U	2.5 U	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U
Vanadium	**1,100** D^{2}	**470**	**580**	**720**	**660**	**560**	**580**	**650**	**590**	**530**	**620**
Zinc	14 D^{2}	13	14	8.8	10	6.0	13	9.5	7.9	11	7.6
Mercury	**0.263**	**0.169**	**0.168**	**0.336**	**0.308**	**0.189**	**0.245**	**0.396**	**0.461**	**0.320**	**0.328**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
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J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates the dilution factor.
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Table 19
RMA Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**RMA-WST06**		**RMA-WST07**		**RMA-WST08**		**RMA-WST09**		**RMA-WST10**	
Field Sample ID:	**RMA-WST06A**	**RMA-WST06B**	**RMA-WST07A**	**RMA-WST07B**	**RMA-WST08A**	**RMA-WST08B**	**RMA-WST09A**	**RMA-WST09B**	**RMA-WST10A**	**RMA-WST10B**
Date:	**9/16/2011**	**9/15/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**
Depth (inch):	**0-3**	**36-48**	**0-3**	**96**	**0-3**	**54**	**0-3**	**84**	**0-3**	**60-72**
Comments:	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	10.87	12.01	10.82	11.27	11.10	12.34	10.71	10.91	12.05	11.65
Inorganics										
Aluminum	70,000	61,000	84,000	44,000	81,000	100,000 D^{10}	66,000	89,000	76,000	74,000 D^{10}
Antimony	2.1 U	2.2 U	2.4 U	**7.4**	2.3 U	2.5 U	2.2 U	2.6 U	**3.1**	**3.8**
Arsenic	**3.8**	**15**	**7.1**	**10**	**13**	**11**	**16**	**3.3**	**9.5**	**7.6**
Barium	65	78	97	160	110	150	47	69	62	16
Beryllium	0.32 U	0.33 U	0.36 U	1.2	0.34 U	0.37 U	0.32 U	0.39 U	0.33 U	0.28 U
Cadmium	0.32 U	**0.58 J**	0.36 U	**0.77 J**	**0.90**	**0.99**	**0.76**	0.39 U	**0.50**	**1.5**
Calcium	15,000	16,000	9,500	16,000	5,300	8,300	19,000	11,000	6,100	5,300
Chromium	**840**	**910**	**490**	**1,500**	**520**	**490**	**320**	**560**	**280**	**370**
Cobalt	2.1 U	2.2 U	2.4 U	37	2.3 U	2.5 U	2.2 U	2.6 U	2.2 U	1.8 U
Copper	15	10	12	32 D^{10}	9.4	12	13	11	4.0	2.0
Iron	210,000 D^{25}	200,000 D^{10}	190,000 D^{25}	170,000 D^{10}	210,000 D^{10}	200,000 D^{10}	280,000 D^{25}	180,000 D^{25}	210,000 D^{10}	250,000 D^{10}
Lead	58	68	33	88	28	39	32	33	22	30
Magnesium	800	800	770	1,300	650	710	1,100	440	650	640
Manganese	59	65	37	84	26	33	110	19	24	23
Nickel	6.3	9.8	6.7	16	10	13	4.3	6.6	7.5	7.8
Potassium	410	560	810	1,600	1,300	780	390	310	480	320
Selenium	2.1 U	2.2 U	2.4 U	2.2 U	**4.7**	2.5 U	**2.7**	2.6 U	2.2 U	1.8 U
Silver	0.53 U	0.55 U	**0.80**	0.55 U	0.57 U	0.62 U	**1.4**	**1.1**	**0.58**	0.46 U
Sodium	41,000	28,000	63,000	29,000	76,000	60,000	34,000	57,000	63,000	41,000
Thallium	2.1 U	2.2 U	2.4 U	2.2 U	2.3 U	2.5 U	2.2 U	2.6 U	2.2 U	1.8 U
Vanadium	**610**	**750**	**1,300**	**470**	**920**	**710**	**890**	**480**	**580**	**610**
Zinc	5.9	11	8.7	17	12	21	16	4.6	6.3	4.8
Mercury	**0.213**	**0.201**	**0.213**	**0.076**	**0.171**	**0.164**	**0.229**	**0.290**	**0.138**	**0.240**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
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Table 19
RMA Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**RMA-WST11**			**RMA-WST12**		**RMA-WST13**		**RMA-WST14**		**RMA-WST15**
Field Sample ID:	**RMA-WST11A**	**RMA-WST11B**	**RMA-WST11C**	**RMA-WST12A**	**RMA-WST12B**	**RMA-WST13A**	**RMA-WST13B**	**RMA-WST14A**	**RMA-WST14B**	**RMA-WST15A**
Date:	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**
Depth (inch):	**0-3**	**96**	**0-3**	**0-3**	**36-48**	**0-3**	**96**	**0-3**	**42**	**0-3**
Comments:	-	-	**Dup of RMA-WST11A**	-	-	-	-	-	-	-
pH (Standard Units)	10.75	11.77	11.05	10.99	11.55	10.88	10.58	10.33	10.67	10.23
Inorganics										
Aluminum	85,000	85,000	87,000	96,000	74,000	77,000	70,000	40,000	120,000 D^{25}	63,000
Antimony	2.3 U	2.3 U	2.5 U	2.5 U	2.0 U	2.3 U	2.2 U	2.3 U	2.4 U	2.3 U
Arsenic	**5.6**	**10**	**5.3**	**11**	**11**	**3.6**	**4.9**	**15**	**8.2**	**12**
Barium	83	100	86	89	49	52	80	63	37	54
Beryllium	0.35 U	0.34 U	0.37 U	0.37 U	0.30 U	0.34 U	0.33 U	0.34 U	0.35 U	0.35 U
Cadmium	0.35 U	**0.51**	0.37 U	0.37 U	**1.7**	0.34 U	0.33 U	**0.64**	0.35 U	**0.40**
Calcium	9,900	7,200	10,000	8,900	6,800	14,000	19,000	33,000	20,000	35,000
Chromium	**770**	**500**	**770**	**490**	**640**	**870**	**1,100**	**370**	**250**	**320**
Cobalt	2.3 U	2.3 U	2.5 U	2.5 U	2.0 U	2.3 U	2.2 U	2.3 U	2.4 U	2.3 U
Copper	14	8.3	15	12	4.4	12	16	14	9.7	15
Iron	200,000 D^{25}	230,000 D^{10}	200,000 D^{25}	220,000 D^{25}	250,000 D^{10}	200,000 D^{25}	190,000 D^{25}	310,000 D^{25}	240,000 D^{25}	250,000 D^{25}
Lead	36	36	37	35	47	41	79	45	18	32
Magnesium	580	520	600	1,200	1,400	580	470	1,400	1,300	1,900
Manganese	51	19	45	49	110	65	60	170	22	87
Nickel	6.8	10	7.2	6.5	11	6.4	7.1	4.3	4.6	4.7
Potassium	1,200	830	1,200	760	450	500	230	370	460	690
Selenium	**16**	2.3 U	**13**	2.5 U	2.0 U	2.3 U	2.2 U	2.3 U	2.4 U	2.3 U
Silver	**0.76**	0.56 U	**0.71**	**1.1**	0.50 U	**0.94**	0.55 U	**1.3**	**1.3**	**1.6**
Sodium	76,000	57,000	76,000	56,000	41,000	63,000	25,000	16,000	49,000	27,000
Thallium	2.3 U	2.3 U	2.5 U	2.5 U	2.0 U	2.3 U	2.2 U	2.3 U	2.4 U	2.3 U
Vanadium	**610**	**730**	**640**	**910**	**790**	**530**	**580**	**960**	**620**	**760**
Zinc	5.2	12	6.4	9.5	7.7	3.8	2.2 U	21	12	21
Mercury	**0.241**	**0.393**	**0.294**	**0.195**	**0.222**	**0.296**	**0.180**	**0.147**	**0.461**	**0.193**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
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$D^{\#}$ = Dilution was performed for analysis, # indicates the dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 19
RMA Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**RMA-WST16**		**RMA-WST17**		**RMA-WST18**		**RMA-WST19**		**RMA-WST20**	
Field Sample ID:	**RMA-WST16A**	**RMA-WST16B**	**RMA-WST17A**	**RMA-WST17B**	**RMA-WST18A**	**RMA-WST18B**	**RMA-WST19A**	**RMA-WST19B**	**RMA-WST20A**	**RMA-WST20B**
Date:	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/15/2011**	**9/15/2011**	**9/16/2011**	**9/16/2011**	**9/15/2011**	**9/15/2011**
Depth (inch):	**0-3**	**90**	**0-3**	**36**	**0-3**	**-**	**0-3**	**60**	**0-3**	**48**
Comments:	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	10.61	10.65	10.74	10.57	10.91	11.44	10.78	12.4	10.80	10.12
Inorganics										
Aluminum	68,000	120,000 D^{25}	140,000 D^{25}	71,000	87,000	86,000	84,000	99,000	86,000	79,000
Antimony	2.2 U	2.0 U	2.3 U	2.1 U	2.3 U	2.4 U	2.4 U	2.5 U	2.4 U	2.2 U
Arsenic	**11**	**7.0**	**7.7**	**5.8**	**3.9**	**12**	**6.2**	**11**	**6.1**	**8.7**
Barium	65	77	80	80	93	68	130	170	85	66
Beryllium	0.32 U	0.30 U	0.34 U	0.32 U	0.46	0.36 U	0.35 U	0.72	0.35 U	0.33 U
Cadmium	**0.47**	**0.59**	**0.35**	0.32 U	0.35 U	**0.63**	0.35 U	**0.50**	0.35 U	**0.40**
Calcium	25,000	15,000	22,000	80,000	11,000	7,800	7,200	13,000	6,600	9,100
Chromium	**410**	**420**	**440**	**400**	**680**	**540**	**670**	**480**	**500**	**370**
Cobalt	2.2 U	2.0 U	2.3 U	2.1 U	2.3 U	2.4 U	2.4 U	3.0	2.4 U	2.2 U
Copper	13	13	13	14	15	6.6	13	20	12	13
Iron	250,000 D^{25}	230,000 D^{25}	210,000 D^{25}	170,000 D^{25}	190,000 D^{25}	230,000 D^{10}	220,000 D^{25}	180,000 D^{10}	190,000 D^{25}	250,000 D^{25}
Lead	38	33	34	30	37	38	33	28	29	28
Magnesium	1,200	1,700	720	2,500	550	450	650	680	680	1,200
Manganese	65	150	47	97	27	16	20	37	33	93
Nickel	4.9	6.4	5.6	6.4	8.5	9.2	7.4	18	7.1	5.8
Potassium	370	460	440	600	1,000	400	1,300	950	1,100	590
Selenium	2.2 U	2.0 U	2.3 U	2.1 U	2.3 U	2.4 U	**4.7**	2.5 U	**2.9**	2.2 U
Silver	**1.4**	**1.1**	**1.3**	**0.90**	**0.74**	0.60 U	**0.76**	0.62 U	**0.60**	**0.95**
Sodium	31,000	40,000	37,000	34,000	67,000	56,000	68,000	56,000	95,000 D^{25}	42,000
Thallium	2.2 U	2.0 U	2.3 U	2.1 U	2.3 U	2.4 U	2.4 U	2.5 U	2.4 U	2.2 U
Vanadium	**800**	**660**	**640**	**520**	**490**	**790**	**610**	**620**	**550**	**710**
Zinc	15	15	12	15	6.7	6.3	13	21	11	16
Mercury	**0.158**	**0.201**	**0.308**	**0.159**	**0.373**	**0.367**	**0.422**	**0.513**	**0.270**	**0.349**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates the dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 20
RMA Depositional Area Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**RMA-SD57**	**RMA-SD58**	**RMA-SD59**	**RMA-SD60**	**RMA-SD61**	**RMA-SD62**	
Field Sample ID:	**RMA-SD57**	**RMA-SD58**	**RMA-SD59**	**RMA-SD60**	**RMA-SD61**	**RMA-SD62**	**RMA-SD63**
Date:	**9/21/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	**Dup of RMA-SD62**
pH (Standard Units)	10.48	10.48	9.86	9.85	7.52	9.84	9.98
Inorganics							
Aluminum	34,000	43,000	47,000	41,000	27,000	23,000	22,000
Antimony	**7.2**	**3.6**	**7.4**	**6.4**	**3.7**	**8.1**	**10**
Arsenic	**18**	**7.8**	**10**	**11**	**14**	**15**	**16**
Barium	49	73	100	76	130	50	54
Beryllium	0.33 U	0.34 U	0.33 U	0.31 U	0.35 U	0.28 U	0.29 U
Cadmium	**0.34**	0.34 U	**0.60**	0.31 U	0.35 U	**0.61**	**0.47**
Calcium	52,000	150,000 D^{25}	36,000	44,000	63,000	23,000	18,000
Chromium	**300**	**230**	**410**	**380**	**180**	**290**	**310**
Cobalt	2.2 U	2.7	3.9	2.7	6.6	1.8 U	2.0 U
Copper	15	14	20	17	26	16	17
Iron	290,000 D^{25}	130,000 D^{25}	250,000 D^{25}	230,000 D^{25}	190,000 D^{25}	330,000 D^{25}	380,000 D^{25}
Lead	39	22	47	40	23	43	47
Magnesium	1,400	3,300	2,200	2,300	4,000	1,900	1,700
Manganese	130	190	180	130	660	170	170
Nickel	2.9	5.5	6.4	4.8	6.8	3.9	3.8
Potassium	220	680	660	480	2,200	240	250
Selenium	**3.7**	2.3 U	**2.9**	**2.3**	**3.1**	**3.2**	**3.7**
Silver	**1.3**	**0.70**	**1.2**	**1.0**	**0.61**	**1.2**	**1.2**
Sodium	13,000	21,000	17,000	15,000	1,100	4,500	4,600
Thallium	2.2 U	2.3 U	2.2 U	2.1 U	2.3 U	1.8 U	3.9 U
Vanadium	**860**	**400**	**680**	**610**	**580**	**860**	**980**
Zinc	12	21	18	15	26	14	12
Mercury	**0.175**	**0.137**	**0.154**	**0.156**	**0.469**	**0.145**	**0.179**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 21
RMB Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**RMB-WST22**		**RMB-WST23**			**RMB-WST24**	**RMB-WST28**		**RMB-WST29**		**RMB-WST30**	
Field Sample ID:	**RMB-WST22A**	**RMB-WST22B**	**RMB-WST23A**	**RMB-WST23B**	**RMB-WST23C**	**RMB-WST24A**	**RMB-WST28A**	**RMB-WST28B**	**RMB-WST29A**	**RMB-WST29B**	**RMB-WST30A**	**RMB-WST30B**
Date:	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**
Depth (inches):	**0-3**	**120**	**0-3**	**90**	**90**	**0-3**	**0-3**	**36-48**	**0-3**	**36-48**	**0-3**	**36-48**
Comments:	**-**	**-**	**-**	**-**	**Dup of RMB-WST23B**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
pH (Standard Units)	11.02	11.91	11.05	12.49	12.44	10.30	10.57	11.70	10.54	11.13	10.69	10.62
Inorganics												
Aluminum	68,000 D^{4}	57,000 D^{4}	44,000	50,000 D^{4}	52,000 D^{4}	52,000 D^{2}	140,000 D^{25}	98,000 D^{4}	48,000	95,000 D^{4}	150,000 D^{25}	84,000 D^{2}
Antimony	10 UD^{4}	8.9 UD^{4}	**7.6**	7.6 UD^{4}	10 UD^{4}	4.0 UD^{2}	2.2 U	12 UD^{4}	1.8 U	10 UD^{4}	2.3 U	5.3 UD^{2}
Arsenic	**13** D^{4}	**7.4** D^{4}	**17**	**10** D^{4}	**12** D^{4}	1.6 UD^{2}	**12**	**16** D^{4}	**12**	**17** D^{4}	**9.7**	**9.2** D^{2}
Barium	52 UD^{4}	44 UD^{4}	59	38 UD^{4}	52 UD^{4}	20 UD^{2}	110	59 UD^{4}	41	55 UD^{4}	76	27 UD^{2}
Beryllium	1.6 UD^{4}	1.3 UD^{4}	0.51	1.1 UD^{4}	1.5 UD^{4}	0.59 UD^{2}	0.33 U	1.8 UD^{4}	0.28 U	1.7 UD^{4}	0.35 U	0.80 UD^{2}
Cadmium	1.6 UD^{4}	1.3 UD^{4}	**1.0**	1.1 UD^{4}	1.5 UD^{4}	0.59 UD^{2}	0.33 U	1.8 UD^{4}	0.28 U	1.7 UD^{4}	0.35 U	0.80 UD^{2}
Calcium	6,900 D^{4}	5,300 D^{4}	13,000	3,900 D^{4}	4,400 D^{4}	1,800 D^{2}	26,000	7,700 D^{4}	150,000 D^{25}	6,200 D^{4}	14,000	9,500 D^{2}
Chromium	**350** D^{4}	**280** D^{4}	**440**	**230** D^{4}	**240** D^{4}	**16** D^{2}	**740**	**290** D^{4}	**250**	**180** D^{4}	**890**	**570** D^{2}
Cobalt	10 UD^{4}	8.9 UD^{4}	3.4	7.6 UD^{4}	10 UD^{4}	4.0 UD^{2}	3.0	12 UD^{4}	2.4	11 UD^{4}	3.8	5.3 UD^{2}
Copper	15 D^{4}	21 D^{4}	21	16 D^{4}	17 D^{4}	2.0 UD^{2}	17	12 D^{4}	13	15 D^{4}	18	2.7 UD^{2}
Iron	290,000 D^{25}	400,000 D^{25}	290,000 D^{25}	360,000 D^{25}	390,000 D^{25}	330,000 D^{50}	130,000 D^{25}	210,000 D^{4}	140,000 D^{25}	210,000 D^{4}	130,000 D^{25}	170,000 D^{5}
Lead	55 D^{4}	59 D^{4}	66	45 D^{4}	47 D^{4}	2.1 D^{2}	66	46 D^{4}	31	41 D^{4}	55	61 D^{2}
Magnesium	430 D^{4}	400 D^{4}	490	360 D^{4}	380 D^{4}	190 D^{2}	7,000	1,700 D^{4}	3,600	540 D^{4}	2,600	430 D^{2}
Manganese	860 D^{4}	3,100 D^{4}	650	2,300 D^{4}	3,000 D^{4}	39 D^{2}	52	530 D^{4}	330	680 D^{4}	98	120 D^{2}
Nickel	12 D^{4}	9.1 D^{4}	6.3	8.5 D^{4}	10 UD^{4}	4.0 UD^{2}	13	12 UD^{4}	6.2	11 UD^{4}	14	22 D^{2}
Potassium	480 D^{4}	220 D^{4}	190	190 UD^{4}	260 UD^{4}	99 UD^{2}	860	470 D^{4}	620	320 D^{4}	950	670 D^{2}
Selenium	10 UD^{4}	8.9 UD4	**3.1**	7.6 UD^{4}	10 UD^{4}	4.0 UD^{2}	2.2 U	12 UD^{4}	1.8 U	11 UD^{4}	2.3 U	5.3 UD^{2}
Silver	2.6 UD^{4}	2.2 UD^{4}	**0.82**	1.9 UD^{4}	2.6 UD^{4}	0.99 UD^{2}	0.55 U	2.9 UD^{4}	**1.3**	2.8 UD^{4}	**0.73**	**1.6** D^{2}
Sodium	66,000 D^{4}	29,000 D^{4}	32,000	34,000 D^{4}	35,000 D^{4}	710 D^{2}	48,000	70,000 D^{4}	23,000	68,000 D^{4}	63,000	58,000 D^{2}
Thallium	10 UD^{4}	8.9 UD^{4}	2.3 U	7.6 UD^{4}	10 UD^{4}	4.0 UD^{2}	2.2 U	12 UD^{4}	1.8 U	11 UD^{4}	2.3 U	5.3 UD^{2}
Vanadium	**630** D^{4}	**860** D^{4}	**910**	**760** D^{4}	**820** D^{4}	**37** D^{2}	**590**	**500** D^{4}	**430**	**460** D^{4}	**560**	**480** D^{2}
Zinc	22 D^{4}	60 D^{4}	30	42 D^{4}	51 D^{4}	4.0 UD^{2}	2.2 U	17 D^{4}	20	21 D^{4}	2.3 U	5.3 UD^{2}
Mercury	0.057 U	0.046 U	**0.080**	0.048 U	0.055 U	0.053 U	**0.105**	**0.070**	0.045 U	0.073 U	**0.070**	0.069 U

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
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J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 21
RMB Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	RMB-WST32	RMB-WST34		RMB-WST36	RMB-WST37		RMB-WST38	RMB-WST39		RMB-WST40
Field Sample ID:	RMB-WST32A	RMB-WST34A	RMB-WST34B	RMB-WST36A	RMB-WST37A	RMB-WST37B	RMB-WST38A	RMB-WST39A	RMB-WST39B	RMB-WST40A
Date:	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011
Depth (inches):	0-3	0-3	42-48	0-3	0-3	84-96	0-3	0-3	36	0-3
Comments:	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	9.14	10.91	12.52	8.69	12.35	12.59	10.09	10.35	9.89	8.06
Inorganics										
Aluminum	93,000	60,000	68,000 D^{4}	150,000 D^{25}	55,000	70,000 D^{4}	91,000 D^{2}	67,000	77,000 D^{2}	18,000 D^{2}
Antimony	2.5 U	2.2 U	10 UD^{4}	2.5 U	**7.5**	12 UD^{4}	**3.3**	**3.9**	5.4 UD^{2}	3.7 UD^{2}
Arsenic	**16**	**18**	**7.4** D^{4}	**9.3**	**12**	**7.8** D^{4}	**6.0**	**21**	**9.8** D^{2}	**15** D^{2}
Barium	24	46	56 UD^{4}	100	41	79 D^{4}	110	59	76 D^{2}	19 UD^{2}
Beryllium	0.37 U	0.32 U	1.7 UD^{4}	0.37 U	0.39 U	1.9 UD^{4}	0.44 U	0.40 U	0.81 UD^{2}	0.56 UD^{2}
Cadmium	0.37 U	0.32 U	1.7 UD^{4}	0.37 U	**0.50**	1.9 UD^{4}	0.44 U	**0.57**	0.81 UD^{2}	**3.8** D^{2}
Calcium	35,000	13,000	15,000 D^{4}	17,000	20,000	24,000 D^{4}	23,000	26,000	17,000 D^{2}	800 D^{2}
Chromium	**340**	**1,000**	**500** D^{4}	**850**	**630**	**970** D^{4}	**1,800**	**840 J**	**720** D^{2}	**290** D^{2}
Cobalt	2.5 U	2.2 U	11 UD^{4}	2.7	2.9	12 UD^{4}	2.9	4.9	5.4 UD^{2}	3.7 UD^{2}
Copper	16	20	16 D^{4}	14	18	16 D^{4}	22	18	14 D^{2}	30 D^{2}
Iron	170,000 D^{25}	210,000 D^{25}	220,000 D^{4}	110,000 D^{25}	240,000 D^{25}	180,000 D^{4}	67,000 D^{2}	93,000 D^{10}	170,000 D^{25}	490,000 D^{25}
Lead	36	110	54 D^{4}	58	80	67 D^{4}	73	63	59 D^{2}	42 D^{2}
Magnesium	31,000	740	1,000 D^{4}	8,000	680	990 D^{4}	12,000	11,000	6,500 D^{2}	1,800 D^{2}
Manganese	280	93	310 D^{4}	150	370	240 D^{4}	65	75 J	94 D^{2}	11 D^{2}
Nickel	6.8	5.6	11 UD^{4}	13	5.7	12 D^{4}	14	15	14 D^{2}	12 D^{2}
Potassium	590	340	280 UD^{4}	1,100	160	310 UD^{4}	850	1,100	700 D^{2}	93 UD^{2}
Selenium	2.5 U	2.2 U	11 UD^{4}	2.5 U	2.6 U	12 UD^{4}	2.9 U	2.6 U	5.4 UD^{2}	3.7 UD^{2}
Silver	**1.5**	**1.8**	2.8 UD^{4}	0.62 U	**1.5**	3.1 UD^{4}	1.5 UD^{2}	0.66 U	0.67 U	0.93 UD^{2}
Sodium	33,000	26,000	45,000 D^{4}	47,000	20,000	45,000 D^{4}	49,000	47,000	46,000 D^{2}	630 D^{2}
Thallium	2.5 U	2.2 U	11 UD^{4}	2.5 U	2.6 U	12 UD^{4}	2.9 U	2.6 U	5.4 UD^{2}	3.7 UD^{2}
Vanadium	**510**	**1,500**	**610** D^{4}	**450**	**790**	**600** D^{4}	**590**	**770 J**	**500** D^{2}	**1,200** D^{2}
Zinc	15	11	13 D^{4}	2.5 U	18	17 D^{4}	16 D^{2}	8.2	8.6 D^{2}	5.1 D^{2}
Mercury	**0.136**	**0.045**	0.048 U	**0.112**	**0.066**	**0.075**	**0.089**	0.065 U	**0.055**	**0.348**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 22
ADP Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**ADP-WST41**			**ADP-WST42**
Field Sample ID:	**ADP-WST41A**	**ADP-WST41B**	**ADP-WST41C**	**ADP-WST42A**
Date:	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**
Depth (inches):	**0-3**	**48.0**	**48.0**	**0-3**
Comment:	**-**	**-**	**Dup of ADP-WST41B**	**-**
pH (Standard Units)	10.17	6.99	6.83	9.83
Inorganics				
Aluminum	8,600	4,900	3,900	16,000
Antimony	**4.0**	4.3 U	4.6 U	**4.5**
Arsenic	**35**	**13**	**5.6**	**30**
Barium	540	180	110	550
Beryllium	0.82	0.64 U	0.70 U	0.96
Cadmium	**0.41**	0.64 U	0.70 U	**0.57**
Calcium	6,200	4,400	3,300	17,000
Chromium	**23**	**9.5**	**7.3**	**19**
Cobalt	4.8	4.3 U	4.6 U	4.7
Copper	19	13	11	19
Iron	27,000	14,000	5,900	21,000
Lead	3.7	2.4	1.9 U	4.9
Magnesium	2,900	800	530	1,400
Manganese	190	130	70	120
Nickel	20	8.3	6.4	19
Potassium	1,500	620	630	1,800
Selenium	**10**	**10**	**11**	**8.9**
Silver	0.61 U	1.1 U	1.2 U	0.56 U
Sodium	22,000	7,000	8,100	27,000
Thallium	2.4 U	4.3 U	4.6 U	2.2 U
Vanadium	**81**	**31**	**22**	**99**
Zinc	25	14	10	39
Mercury	**0.094**	0.090 U	0.098 U	**0.218**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 23
FBS Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**FBS-WST43**	**FBS-WST44**	**FBS-WST45**	**FBS-WST46**
Field Sample ID:	**FBS-WST43A**	**FBS-WST44A**	**FBS-WST45A**	**FBS-WST46A**
Date:	**9/21/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**
Depth (inch):	**0.0 - 3.0**	**0.0 - 3.0**	**0.0 - 3.0**	**0.0 - 3.0**
Comment:	**-**	**-**	**-**	**-**
pH (Standard Units)	9.02	10.5	10.93	10.29
Inorganics				
Aluminum	68,000	100,000 D^{25}	76,000	79,000
Antimony	2.2 U	2.2 U	**6.0**	**4.1**
Arsenic	**6.3**	**24**	**12**	**47**
Barium	15	13	12	13
Beryllium	0.34 U	0.33 U	0.35 U	0.35 U
Cadmium	**0.72**	**0.87**	**0.65**	**0.56**
Calcium	42,000	36,000	12,000	9,300
Chromium	**99**	**140**	**240**	**180**
Cobalt	2.2 U	2.2 U	2.3 U	2.4 U
Copper	5.9	14	14	16
Iron	62,000 D^{10}	110,000 D^{25}	220,000 D^{25}	140,000 D^{25}
Lead	9.6	18	30	25
Magnesium	1,500	1200	200	450
Manganese	29	38	48	38
Nickel	2.2 U	4.7	5.2	6.1
Potassium	260	190	140	320
Selenium	2.2 U	**2.4**	**3.2**	**3.1**
Silver	0.56 U	**0.81**	**1.2**	**1.2**
Sodium	5,100	55,000	50,000	110,000 D^{25}
Thallium	2.2 U	2.2 U	2.3 U	2.4 U
Vanadium	**180**	**460**	**580**	**660**
Zinc	140	120	73	200
Mercury	**0.098**	**0.136**	**0.165**	**0.236**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 24
Surface Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:		ACC-SW01	ACC-SW04	ACC-SW05	ACC-SW06	ACC-SW07	MAN-SW08	MAN-SW09	MAN-SW10	MAN-SW11	MAN-SW12	MAN-SW13
Field Sample ID:		ACC-SW01	ACC-SW04	ACC-SW05	ACC-SW06	ACC-SW07	MAN-SW08	MAN-SW09	MAN-SW10	MAN-SW11	MAN-SW12	MAN-SW13
Date:		9/13/2011	9/13/2011	9/13/2011	9/13/2011	9/13/2011	9/12/2011	9/12/2011	9/12/2011	9/12/2011	9/12/2011	9/12/2011
Comments:	AWQC	-	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	6.5 - 8.5	9.31	8.05	7.55	8.05	8.44	8.06	7.75	7.79	8.30	8.13	8.52
Inorganics												
Aluminum	none	100 U	100 U	100 U	100 U	100 U	5,400	1,700 K	3,600	300	980	1,600
Antimony		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	36	**8.5**	8.0 U	8.0 U	8.0 U	**11**	**13**	**8.3 K**	**14**	**41**	8.0 U	**41**
Barium	200	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Beryllium	100	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	8.8	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	none	400,000	390,000	370,000	390,000	380,000	1,300,000	8,000,000 D^{50}	540,000	390,000	400,000	360,000
Chromium	27.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**22**	**11**	**5.6**	5.0 U	5.0 U	5.0 U
Cobalt	1	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	3.1	10 U	10 U	10 U	10 U	20 U	15	10 U	10 U	10 U	10 U	10 U
Iron	50	140	50 U	63	82	50 U	6,000	1,800 K	3600	80	1,000	540
Lead	8.1	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Magnesium	none	1,400,000 D^{10}	1,400,000 D^{10}	1,300,000 D^{10}	1,400,000 D^{10}	1,300,000 D^{10}	1,300,000	1,300,000 D^{10}	710,000	1,500,000 D^{10}	1,300,000	1,300,000
Manganese	100	41	6.6	96	24	22	270	250	630	71	28	76
Nickel	8.2	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	none	490,000	480,000	470,000	490,000	470,000	470,000	460,000	270,000	540,000	470,000	480,000
Selenium	71	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Silver	none	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	none	9,600,000 D^{50}	9,100,000 D^{50}	9,100,000 D^{50}	10,000,000 D^{50}	8,700,000 D^{50}	10,000,000 D^{50}	9,600,000 D^{50}	540,000	11,000,000 D^{50}	9,700,000 D^{50}	10,000,000 D^{50}
Thallium	17	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	50	20 U	20 U	20 U	20 U	20 U	**33**	20 U	**57**	**28**	20 U	**34**
Zinc	81	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Mercury	0.94	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloride (mg/L)		16,000 D^{500}	16,000 D^{500}	15,000 D^{500}	16,000 D^{500}	14,000 D^{500}	16,000 D^{500}	14,000 D^{500}	8,100 D^{250}	16,000 D^{500}	16,000 D^{500}	17,000 D^{500}

All results are in micrograms per liter (µg/L) unless otherwise noted.
AWQC = Ambient Water Quality Criteria (recommended for protection of aquatic life and human health, saltwater chronic)
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
K = The identification of the analyte is acceptable; the reported value may be biased high.
L = The identification of the analyte is acceptable; the reported value may be biased low.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.
Shading indicates exceedance of AWQC for contaminants of concern.

Table 24
Surface Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:		MAN-SW14	MAN-SW15	MAN-SW16	MAN-SW17	MAN-SW19	MAN-SW20	MAN-SW21	WES-SW22		WES-SW24
Field Sample ID:		MAN-SW14	MAN-SW15	MAN-SW16	MAN-SW17	MAN-SW19	MAN-SW20	MAN-SW21	WES-SW22	WES-SW23	WES-SW24
Date:		9/12/2011	9/12/2011	9/12/2011	9/14/2011	9/15/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011
Comments:	AWQC	-	-	-	-	-	-	-	-	Dup of WES-SW22	-
pH (Standard Units)	6.5 - 8.5	8.67	9.06	8.05	8.65	7.90	7.85	7.62	8.05	8.05	8.10
Inorganics											
Aluminum	none	120	250	300	3,600	500	24,000	100 U	310	350	1,200
Antimony		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	36	**31**	**22**	**14**	**30**	8.0 J	**28**	8.0 U	8.0 U	8.0 U	8.0 U
Barium	200	100 U	100 U	100 U	100 U	100 U	110	100 U	110	110	110
Beryllium	100	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	8.8	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	none	350,000	340,000	280,000	340,000	400,000	430,000	370,000	260,000	260,000	230,000
Chromium	27.4	5.0 U	5.0 U	5.0 U	**9.0**	5.0 U	**71**	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	1	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	3.1	10 U	10 U	10 U	10 U	10 U	52	10 U	10 U	10 U	10 U
Iron	50	50 U	91	200	2400	670	28,000	150	470	550	1800
Lead	8.1	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	16	8.0 U	8.0 U	8.0 U	8.0 U
Magnesium	none	1,400,000 D^{10}	1,300,000 D^{10}	990,000 D^{10}	1,400,000	1,300,000	1,300,000	1,300,000	780,000	780,000	680,000
Manganese	100	45	27	160	950	25	1,900	4,900	830	860	1,400
Nickel	8.2	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	none	520,000	480,000	350,000	550,000	480,000 J	470,000	500,000	340,000	350,000	290,000
Selenium	71	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Silver	none	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	none	10,000,000 D^{50}	9,300,000 D^{50}	6,700,000 D^{10}	11,000,000 D^{50}	10,000,000 D^{50}	9,700,000 D^{50}	10,000,000 D^{50}	6,900,000 D^{25}	6,700,000 D^{25}	5,800,000 D^{25}
Thallium	17	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	50	20	20 U	**21**	**31**	20 U	**110**	20 U	20 U	20 U	20 U
Zinc	81	20 U	20 U	20 U	20 U	20 U	79	20 U	20 U	20 U	20 U
Mercury	0.94	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloride (mg/L)		17,000 D^{500}	14,000 D^{500}	12,000 D^{500}	18,000 D^{500}	16,000 D^{500}	16,000 D^{500}	16,000 D^{500}	4,700 D^{100}	11,000 D^{500}	9,400 D^{500}

All results are in micrograms per liter (µg/L) unless otherwise noted.
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U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
K = The identification of the analyte is acceptable; the reported value may be biased high.
L = The identification of the analyte is acceptable; the reported value may be biased low.
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Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 24
Surface Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:		LCP-SW26	LCP-SW27	LCP-SW28	LCP-SW29	LCP-SW30	LCP-SW31	LCP-SW32	LCP-SW33	UCP-SW34	UCP-SW35	UCP-SW36
Field Sample ID:		LCP-SW26	LCP-SW27	LCP-SW28	LCP-SW29	LCP-SW30	LCP-SW31	LCP-SW32	LCP-SW33	UCP-SW34	UCP-SW35	UCP-SW36
Date:		9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/15/2011
Comments:	AWQC	-	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	6.5 - 8.5	8.18	8.50	8.10	8.75	10.16	8.85	8.05	8.05	8.18	8.17	8.65
Inorganics												
Aluminum	none	100 U	2,900	100	630	5,900	8,000	15,000	14,000	670	21,000	230
Antimony		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	36	**19**	**21**	**20**	**20**	**220**	**27**	**34**	**32**	**10**	**23**	**9.8**
Barium	200	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Beryllium	100	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	8.8	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	none	260,000	280,000	270,000	270,000	24,000	290,000	280,000	310,000	320,000	320,000	330,000
Chromium	27.4	5.0 U	**17**	5.0 U	5.0 U	**43**	**130**	**240**	**180**	**170**	**410**	**130**
Cobalt	1	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	3.1	10 U	10 U	10 U	10 U	10 U	10 U	12	10 U	10 U	11	10 U
Iron	50	50 U	700	50 U	120	2,600	2,000	8,700	6,900	680	20,000	110
Lead	8.1	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Magnesium	none	1,000,000	1,000,000	1,100,000	1,100,000	19,000	1,100,000	1,000,000	1,200,000	1,100,000 D^{25}	1,100,000 D^{25}	1,300,000
Manganese	100	23	59	25	23	44	79	310	280	5.8	73	5.0 U
Nickel	8.2	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	none	360,000	380,000	390,000	410,000	97,000	420,000	380,000	430,000	480,000	460,000	460,000
Selenium	71	20 U	20 U	20 U	20 U	**25**	20 U	20 U	20 U	20 U	20 U	20 U
Silver	none	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	none	7,800,000 D^{50}	7,900,000 D^{50}	8,200,000 D^{50}	8,600,000 D^{50}	3,800,000 D^{50}	8,900,000 D^{50}	7,900,000 D^{50}	9,300,000 D^{50}	9,300,000 D^{25}	9,100,000 D^{25}	10,000,000 D^{50}
Thallium	17	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	50	**130**	**130**	**140**	**130**	**2,200**	**240**	**310**	**310**	**190**	**370**	**190**
Zinc	81	20 U	20 U	20 U	20 U	20 U	20 U	41	20 U	20 U	20 U	20 U
Mercury	0.94	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloride (mg/L)		12,000 D^{500}	12,000 D^{500}	13,000 D^{500}	13,000 D^{500}	3,000 D^{500}	13,000 D^{500}	12,000 D^{500}	12,000 D^{500}	15,000 D^{500}	14,000 D^{250}	16,000 D^{500}

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Table 24
Surface Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:		UCP-SW37	UCP-SW38	UCP-SW39	UCP-SW40	UCP-SW41	RMS-SW42	RMS-SW43	RMS-SW45	RMS-SW46	ADP-SW48	ADP-SW49
Field Sample ID:		UCP-SW37	UCP-SW38	UCP-SW39	UCP-SW40	UCP-SW41	RMS-SW42	RMS-SW43	RMS-SW45	RMS-SW46	ADP-SW48	ADP-SW49
Date:		9/14/2011	9/15/2011	9/14/2011	9/14/2011	9/14/2011	9/15/2011	9/15/2011	9/14/2011	9/15/2011	9/14/2011	9/14/2011
Comments:	AWQC	-	-	-	-	-	-	Dup of RMS-SW42	-	-	-	-
pH (Standard Units)	6.5 - 8.5	8.79	8.40	8.18	8.27	9.88	10.10	10.10	9.85	9.53	9.61	9.65
Inorganics												
Aluminum	none	4,000	2,700	16,000	2,200	74,000	10,000	10,000	94,000	45,000	2,500	140
Antimony		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	36	**12 J**	**10**	**16**	8.0 U	**27**	**150**	**160**	**36**	**29**	**150**	**150**
Barium	200	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Beryllium	100	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	8.8	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	none	300,000	510,000	410,000	410,000	15,000	830	820	10,000	3,200	14,000	8,300
Chromium	27.4	**780**	**11**	**430**	**150**	**570**	**16,000**	**16,000**	**1,500**	**430**	5.0 U	5.0 U
Cobalt	1	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	3.1	10 U	10 U	10 U	10 U	16	10 U	10 U	15	11	10 U	10 U
Iron	50	7,200	2,700	29,000	4,400	56,000	1,300	1,200	52,000	39,000	1700	50 U
Lead	8.1	8.0 U	8.0 U	9.8	8.0 U	11	8.0 U	8.0 U	11	9.8	8.0 U	8.0 U
Magnesium	none	1,200,000 D^{25}	1,700,000	1,400,000 D^{25}	1,400,000 D^{25}	2,100	500 U	500 U	1,700	1,200	48,000	41,000
Manganese	100	11	5.6	19	5.8	49	5.0 U	5.0 U	45	27	37	5.0 U
Nickel	8.2	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	none	520,000	650,000	510,000	440,000 D^{25}	7,600	42,000	42,000	11,000	6,900	130,000	140,000
Selenium	71	**37**	20 U	20 U	20 U	20 U	**640**	**650**	**55**	20 U	20 U	20 U
Silver	none	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	none	10,000,000 D^{25}	13,000,000 D^{50}	11,000,000 D^{25}	11,000,000 D^{25}	480,000	2,800,000 D^{50}	2,800,000 D^{50}	640,000	460,000	4,200,000 D^{50}	4,100,000 D^{25}
Thallium	17	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	50	**260**	**45**	**260**	**62**	**1,500**	**4,400**	**4,500**	**1,700**	**1,300**	**190**	**190**
Zinc	81	20 U	20 U	20 U	20 U	38	20 U	20 U	25	20 U	20 U	20 U
Mercury	0.94	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloride (mg/L)		14,000 D^{1000}	21,000 D^{500}	18,000 D^{500}	19,000 D^{500}	170 D^{10}	580 D^{100}	600 D^{100}	280 D^{10}	130 D^{50}	4,200 D^{500}	4,400 D^{500}

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Table 24
Surface Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:		ADP-SW50	ADP-SW51	ACC-SW52	BG-SW53	BG-SW54	BG-SW55	BG-SW56	RMA-SW57
Field Sample ID:		ADP-SW50	ADP-SW51	ACC-SW52	BG-SW53	BG-SW54	BG-SW55	BG-SW56	RMA-SW57
Date:		9/14/2011	9/14/2011	9/13/2011	9/13/2011	9/13/2011	9/13/2011	9/13/2011	9/20/2011
Comments:	AWQC	-	-	-	-	-	-	-	-
pH (Standard Units)	6.5 - 8.5	9.61	9.57	8.08	6.98	7.54	7.89	7.54	10.55
Inorganics									
Aluminum	none	150	190	100 U	28,000	1,800	7,400	460	280,000
Antimony		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	36	**160**	**160**	8.0 U	**85**	8.0 U	4.8 U	8.0 U	**150**
Barium	200	100 U	100 U	100 U	130	100 U	100 U	100 U	250
Beryllium	100	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	8.8	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	none	8,700	8,900	380,000	750,000	300,000	87,000	58,000	16,000
Chromium	27.4	5.0 U	5.0 U	5.0 U	**75**	5.0 U	**7.7**	5.0 U	**2,900**
Cobalt	1	20 U	20 U	20 U	38	20 U	20 U	20 U	20 U
Copper	3.1	10 U	10 U	10 U	260	10 U	23	10 U	61
Iron	50	50 U	54	50 U	51,000	2000	9,100	640	500,000 D^{10}
Lead	8.1	8.0 U	8.0 U	8.0 U	64	8.0 U	8.0 U	8.0 U	67
Magnesium	none	44,000	44,000	1,400,000 D^{10}	1,100,000	910,000	110,000	28,000	4,000
Manganese	100	5.0 U	5.0 U	7.0	2,200	91	220	100	190
Nickel	8.2	20 U	20 U	20 U	44	20 U	20 U	20 U	31
Potassium	none	130,000	130,000	490,000	390,000	320,000	33,000	4,500	22,000
Selenium	71	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**54**
Silver	none	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	none	4,200,000 D^{50}	4,300,000 D^{50}	9,600,000 D^{50}	8,400,000 D^{50}	6,900,000 D^{50}	730,000 D^{2}	98,000	1,200,000 D^{25}
Thallium	17	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	50	**190**	**210**	20 U	**270**	20 U	**51**	**22**	**5,200**
Zinc	81	20 U	20 U	20 U	280	20 U	22	20 U	36
Mercury	0.94	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	**0.710**
Chloride (mg/L)		4,200 D^{500}	4,300 D^{500}	16,000 D^{500}	13,000 D^{500}	12,000 D^{250}	1,000 D^{50}	130 D^{5}	-

All results are in micrograms per liter (µg/L) unless otherwise noted.
AWQC = Ambient Water Quality Criteria for saltwater (shading indicates exceedance for contaminants of concern)
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
K = The identification of the analyte is acceptable; the reported value may be biased high.
L = The identification of the analyte is acceptable; the reported value may be biased low.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 25
Sediment Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ACC-SW01	ACC-SW04	ACC-SW05	ACC-SW06	ACC-SW07	MAN-SW08	MAN-SW09	MAN-SW10	MAN-SW11	MAN-SW12	MAN-SW13
Field Sample ID:	**ACC-SD01**	**ACC-SD04**	**ACC-SD05**	**ACC-SD06**	**ACC-SD07**	**MAN-SD08**	**MAN-SD09**	**MAN-SD10**	**MAN-SD11**	**MAN-SD12**	**MAN-SD13**
Date:	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	7.71	8.02	7.21	8.08	8.55	8.64	7.65	7.76	7.31	8.65	7.76
Inorganics											
Aluminum	1,100	2,500	25,000	8,700	6,900	1,200	1,800	11,000	2,800	1,100	7,500
Antimony	1.3 U	1.5 U	2 U	**2.4**	1.2 U	1.8 U	0.66 U	1.0 U	0.93 U	1.9 U	3.6 U
Arsenic	**2.3**	**2.2**	**12**	**9.2**	**11**	**3.5**	**3.0**	**4.1**	**4.2**	**3.7**	**4.0**
Barium	9.4	20	25	56	29	13	10	45	15	9.8	18 U
Beryllium	0.20 U	0.22 U	0.30 U	0.18	0.19 U	0.27 U	0.098 U	0.18	0.14 U	0.28 U	0.53 U
Cadmium	0.20 U	0.22 U	0.30 U	**0.48**	0.19 U	0.27 U	0.098 U	0.15 U	0.14 U	0.28 U	0.53 U
Calcium	330,000 D^{10}	330,000 D^{10}	4,800	140,000 D^{10}	280,000 D^{10}	330,000 D^{10}	280,000 D^{10}	270,000 D^{10}	270,000 D^{10}	320,000 D^{10}	280,000 D^{10}
Chromium	**7.0**	**12**	**38**	**51**	**13**	**7.4**	**7.0**	**14**	**8.9**	**6.0**	**20**
Cobalt	1.3 U	1.5 U	7.3	6.0	1.2	1.8 U	0.87	4.7	0.93 U	1.9 U	3.6 U
Copper	3.0	7.9	67	43	16	4	4.7	30	4.6	3.2	9.9
Iron	1,100	3,600	24,000	69,000 D^{10}	5,900	1,900	1,800	11,000	1,700	1,500	3,800
Lead	1.1	2.3	14	190	25	3.1	0.93	2.4	1.4	2.9	4.2
Magnesium	7,300	8,000	13,000	6,300	8,800	5,900	5,700	9,300	9,800	5,900	12,000
Manganese	75	82	120	520	350	96	120	260	25	94	80
Nickel	1.3 U	2.8	16	15	3.7	1.8 U	1.2	8	2.6	1.9 U	4.3
Potassium	350	680	7,600	680	680	400	440	3,600	760	410	1,800
Selenium	1.3 U	1.5 U	**3.4**	1.1 U	1.2 U	1.8 U	0.66 U	1.0 U	0.93 U	1.9 U	3.6 U
Silver	0.33 U	0.36 U	0.5 U	**1.8**	0.31 U	0.45 U	0.16 U	0.26 U	0.23 U	0.47 U	0.89 U
Sodium	4,900	4,400	35,000	4,100	8,600	6,500	5,400	19,000	11,000	6,300	24,000
Thallium	1.3 U	1.5 U	2.0 U	1.1 U	1.2 U	1.8 U	0.66 U	1 U	0.93 U	1.9 U	3.6 U
Vanadium	**8.2**	**16**	**130**	**70**	**18**	**22**	**13**	**60**	**38**	**11**	**47**
Zinc	3.7	12	89	500	170	3.7	3.5	19	4.5	3.4	12
Mercury	0.038 U	0.044 U	0.102 U	0.046 U	**0.062**	0.049 U	0.041 U	0.078 U	0.052 U	0.05 U	0.097 U

All resuts are in miligrams per kilogram (mg/kg) unless otherwise noted.
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J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
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Table 25
Sediment Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	MAN-SW14	MAN-SW15	MAN-SW16	MAN-SW17	MAN-SW19	MAN-SW20	MAN-SW21	WES-SW22		WES-SW24	WES-SW25
Field Sample ID:	MAN-SD14	MAN-SD15	MAN-SD16	MAN-SD17	MAN-SD19	MAN-SD20	MAN-SD21	WES-SD22	WES-SD23	WES-SD24	WES-SD25
Date:	9/12/2011	9/12/2011	9/12/2011	9/14/2011	9/15/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/15/2011
Depth (inches):	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Comments:	-	-	-	-	-	-	-	-	Dup of WES-SD22	-	-
pH (Standard Units)	7.63	7.83	8.38	7.60	7.69	7.64	7.65	7.70	7.96	7.68	8.38
Inorganics											
Aluminum	4,400	3,800	790	9,700 J	7,800	34,000 J	22,000 J	41,000	31,000	25,000	24,000
Antimony	3.6 U	4.7 U	1.7 U	2.2 U	1.3 U	4.9 U	2.2 U	2.1 U	1.9 U	2.3 U	2.3 U
Arsenic	**3.9**	**5.5 J**	**3.0**	**5.3 J**	**18**	**13 J**	**2.8 J**	**8.1**	**6.8**	**4.0**	**5.3**
Barium	18 U	24 U	11	22 J	27	46 J	170 J	89	75	110	260
Beryllium	0.54 U	0.71 U	0.26 U	0.32 U	0.2 U	0.74 U	0.34 U	0.31 U	0.29 U	0.34 U	0.34 U
Cadmium	0.54 U	0.71 U	0.26 U	0.32 U	**0.70**	0.74 U	0.34 U	0.31 U	0.29 U	0.34 U	0.34 U
Calcium	370,000 D[10]	250,000 D[10]	390,000 D[10]	300,000 JD[10]	220,000 D[10]	59,000 J	120,000 JD[10]	160,000 D[10]	180,000 D[10]	87,000	120,000 D[10]
Chromium	**15**	**7.1**	**3.9**	**28 J**	**35**	**140 J**	**27 J**	**160**	**110**	**33**	**74**
Cobalt	3.6 U	4.7 U	1.7 U	2.2 U	5.9	7 J	13 J	3.7	3.4	13	27
Copper	8.6	7.2	3.0	7.2 J	220	45 J	60 J	21	20	60	34
Iron	2,700	2,200	1,000	6,900 J	50,000 D[10]	50,000 J	27,000 J	55,000 D[10]	32,000	26,000	37,000
Lead	4.9	3.8	3.0	4.3 J	150	18 J	4.0 J	12	8.5	5.3	15
Magnesium	15,000	13,000	3,900	12,000 J	6,700	14,000 J	10,000 J	34,000	33,000	15,000	5,200
Manganese	120	100	130	230 J	300	470 J	780 J	340	370	730	1,800
Nickel	3.6	4.7 U	1.7 U	2.2 J	20	11 J	12 J	7.5	6.6	15	18
Potassium	1,800	2,300	420	1,400 J	930	5,600 J	3,900 J	2,600	2,100	3,500	2,900
Selenium	3.6 U	4.7 U	1.7 U	2.2 U	1.3 U	4.9 U	2.2 U	2.1 U	1.9 U	2.3 U	2.3 U
Silver	0.91 U	1.2 U	0.43 U	0.54 U	0.33 U	1.2 U	0.56 U	0.52 U	0.48 U	0.57 U	**0.73**
Sodium	33,000	46,000	7,100	26,000 J	7,500	48,000 J	5,400 J	26,000	20,000	8,100	1,100
Thallium	3.6 U	4.7 U	1.7 U	2.2 U	1.3 U	4.9 U	2.2 U	2.1 U	1.9 U	2.3 U	2.3 U
Vanadium	**43**	**46**	**10**	**69 J**	**59**	**210 J**	**100 J**	**210**	**170**	**110**	**170**
Zinc	14	10	2.5	10 J	460	62 J	73 J	23	23	52	27
Mercury	0.098 U	0.125 U	0.058 U	0.057 U	0.049 U	0.129 U	0.048 U	0.052 U	**0.049**	0.052 U	0.049 U

All resuts are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
D# = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detect above the Reporting Limit are in **BOLD**.

Table 25
Sediment Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	LCP-SW26	LCP-SW27	LCP-SW28	LCP-SW29	LCP-SW30	LCP-SW31	LCP-SW32	LCP-SW33	UCP-SW34	UCP-SW35	UCP-SW36
Field Sample ID:	**LCP-SD26**	**LCP-SD27**	**LCP-SD28**	**LCP-SD29**	**LCP-SD30**	**LCP-SD31**	**LCP-SD32**	**LCP-SD33**	**UCP-SD34**	**UCP-SD35**	**UCP-SD36**
Date:	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/15/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	8.09	7.30	8.31	7.88	8.58	7.82	7.38	7.89	8.01	7.69	8.23
Inorganics											
Aluminum	18,000	23,000	9,800	74,000	30,000	95,000 J	37,000 J	91,000 J	71,000	77,000	49,000
Antimony	2.3 U	7.1 U	1.4 U	3.0 U	2.2 U	5.8 U	7.8 U	5.5 U	2.2 U	2.9 U	2.7 U
Arsenic	**12**	**25**	**5.2**	**25**	**33**	**22 J**	**34 J**	**21 J**	**26**	**26**	**19**
Barium	12 U	35 U	25	15 U	50	29 U	45 J	27 U	24	22	120
Beryllium	0.35 U	1.1 U	0.22 U	0.44 U	0.33 U	0.87 U	1.2 U	0.82 U	0.33 U	0.43 U	0.40 U
Cadmium	0.35 U	1.1 U	0.22 U	0.44 U	0.33 U	0.87 U	1.2 U	0.82 U	0.33 U	0.43 U	0.40 U
Calcium	220,000 D^{10}	140,000	320,000 D^{10}	81,000	220,000 D^{10}	24,000 J	36,000 J	20,000 J	39,000	62,000	67,000
Chromium	**45**	**120**	**35**	**66**	**120**	**160 J**	**570 J**	**78 J**	**230**	**390**	**220**
Cobalt	2.3 U	7.1 U	3.3	3 U	3	5.8 U	7.8 U	5.5 U	3.5	2.9 U	7
Copper	13	18	13	25	17	27 J	31 J	18 J	27	27	38
Iron	5,200	6,800	12,000	7,800	8,500	15,000 J	41,000 J	13,000 J	44,000	41,000	45,000
Lead	3.6	3.6	17	3.2	4.7	5.1 J	17 J	2.2 U	12	10	10
Magnesium	32,000	42,000	12,000	110,000	44,000	110,000 J	40,000 J	140,000 J	87,000	100,000	38,000
Manganese	98	230	300	110	250	90 J	230 J	150 J	240	120	270
Nickel	5.1	7.1 U	5.7	7.8	5.4	10 J	14 J	5.5 J	9	9.6	10
Potassium	1,300	4,000	850	1,400	1,500	1,600 J	3,600 J	1,700 J	1,500	1,900	4,300
Selenium	2.3 U	7.1 U	**1.7**	3.0 U	**2.9**	5.8 U	7.8 U	5.5 U	2.2 U	2.9 U	2.7 U
Silver	0.58 U	1.8 U	0.36 U	0.74 U	0.56 U	1.4 U	2.0 U	1.4 U	0.56 U	0.72 U	0.67 U
Sodium	10,000	47,000	5,100	17,000	12,000	28,000 J	56,000 J	34,000 J	13,000	23,000	29,000
Thallium	2.3 U	7.1 U	1.4 U	3 U	2.2 U	5.8 U	7.8 U	5.5 U	2.2 U	2.9 U	2.7 U
Vanadium	**200**	**220**	**110**	**320**	**440**	**590** J	**500** J	**320** J	**340**	**450**	**330**
Zinc	13	21	43	23	19	55 J	190 J	33 J	34	45	28
Mercury	0.072 U	0.214 U	0.052 U	0.079 U	0.067 U	0.136 U	0.199 U	0.135 U	**0.079**	**0.110**	**0.076**

All resuts are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
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Table 25
Sediment Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	UCP-SW37	UCP-SW38	UCP-SW39	UCP-SW40	UCP-SW41	RMS-SW42		RMS-SW45	RMS-SW46	RMS-SW47	ADP-SW48
Field Sample ID:	**UCP-SD37**	**UCP-SD38**	**UCP-SD39**	**UCP-SD40**	**UCP-SD41**	**RMS-SD42**	**RMS-SD43**	**RMS-SD45**	**RMS-SD46**	**RMS-SD47**	**ADP-SD48**
Date:	**9/14/2011**	**9/16/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/15/2011**	**9/15/2011**	**9/14/2011**	**9/15/2011**	**9/15/2011**	**9/14/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	**Dup of RMS-SD42**	-	-	-	-
pH (Standard Units)	7.77	7.97	7.99	8.27	10.20	10.48	10.40	10.15	9.68	10.20	8.99
Inorganics											
Aluminum	65,000	86,000	77,000	69,000	85,000	72,000	74,000 D^{10}	71,000	66,000	38,000	28,000
Antimony	2.5 U	2.7 U	2.2 U	2.3 U	2.1 U	1.8 U	1.7 U	2.1 U	2.1 U	1.7 U	2.0 U
Arsenic	**15**	**8.1**	**11**	**9.0**	**12**	**7.8**	**8.8**	**9.1**	**7.0**	**15**	**13**
Barium	52	81	80	78	74	84	75	86	150	73	98
Beryllium	0.38 U	0.40 U	0.33 U	0.34 U	0.32 U	0.28 U	0.26 U	0.31 U	0.32 U	0.26 U	0.29 U
Cadmium	**0.50**	0.40 U	**0.97**	**1.3**	**1.1**	**2.1 J**	**1.9**	**1.9**	**0.68**	**4.4**	0.29 U
Calcium	53,000	15,000	24,000	22,000	29,000	18,000	17,000	38,000	17,000	27,000	140,000 D^{10}
Chromium	**550**	**480**	**490**	**480**	**480**	**480**	**430**	**410**	**360**	**360**	**25**
Cobalt	3.3	2.7 U	2.2 U	2.3 U	2.1 U	1.8 U	1.7 U	2.1 U	2.1 U	2.8	8.9
Copper	26	16	16	13	13	11	11	15	15	14	41
Iron	97,000 D^{10}	180,000 D^{25}	170,000 D^{10}	200,000 D^{10}	170,000 D^{10}	250,000 D^{10}	210,000 D^{10}	250,000 D^{10}	120,000 D^{10}	340,000 D^{10}	22,000
Lead	21	31	32	38	26	40	34	37	23	44	3.2
Magnesium	40,000	7,800	7,700	4,600	3,600	750	690	1,600	2,000	1,100	9,200
Manganese	130	70	93	64	71	51	42	85	52	310	430
Nickel	10	7.9	11	11	10	10 J	9.2	11	9.7	12	10
Potassium	2,600	2,200	2,100	1,500	850	470	450	620	730	220	3,700
Selenium	2.5 U	2.7 U	2.2 U	2.3 U	2.1 U	1.8 U	1.7 U	2.1 U	2.1 U	**2.7**	2.0 U
Silver	0.63 U	**1.1**	0.55 U	0.57 U	0.53 U	0.46 U	0.43 U	0.52 U	0.53 U	0.44 U	0.49 U
Sodium	36,000	60,000	53,000	41,000	42,000	33,000	30,000	27,000	30,000	16,000	3,900
Thallium	2.5 U	2.7 U	2.2 U	2.3 U	2.1 U	1.8 U	1.7 U	2.1 U	2.1 U	1.7 U	2.0 U
Vanadium	**420**	**530**	**540**	**640**	**540**	**700**	**620**	**730**	**370**	**1,100**	**110**
Zinc	41	29	34	31	39	12	10	21	35	19	33
Mercury	**0.183**	**0.259**	**0.237**	**0.314**	**0.271**	**0.320**	**0.338**	**0.264**	**0.237**	**0.140**	0.054 U

All resuts are in miligrams per kilogram (mg/kg) unless otherwise noted.
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$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
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Table 25
Sediment Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ADP-SW49	ADP-SW50	ADP-SW51	ACC-SW52	BG-SW53	BG-SW54	BG-SW55	BG-SW56
Field Sample ID:	ADP-SD49	ADP-SD50	ADP-SD51	ACC-SD52	BG-SD53	BG-SD54	BG-SD55	BG-SD56
Date:	9/14/2011	9/14/2011	9/14/2011	9/13/2011	9/13/2011	9/13/2011	9/13/2011	9/13/2011
Depth (inches):	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Comments:	-	-	-	-	-	-	-	-
pH (Standard Units)	9.21	9.50	9.07	8.54	7.56	7.86	8.12	8.20
Inorganics								
Aluminum	31,000	9,200	7,600	3,500	5,300	4,500	17,000	15,000
Antimony	3.7 U	3.0 U	3.0 U	0.85 U	1.3 U	1.2 U	1.8 U	2.2 U
Arsenic	**12**	**21**	**8.5**	**1.2**	**5.5**	**2.5**	**2.3**	**1.4**
Barium	410	330	370	16	65	14	94	65
Beryllium	1.2	0.72	0.87	0.13 U	0.19 U	0.19 U	0.27 U	0.32 U
Cadmium	0.55 U	**0.56**	0.45 U	0.13 U	0.19 U	0.19 U	0.27 U	0.32 U
Calcium	55,000	45,000	9,200	280,000 D^{10}	70,000 D^{10}	29,000	16,000	26,000
Chromium	**96**	**22**	**16**	**10**	**14**	**9.6**	**22**	**27**
Cobalt	6.2	4.3	4.6	1.5	6.8	4.0	13	11
Copper	29	23	16	14	25	9.5	53	45
Iron	33,000	19,000	12,000	4,500	20,000	8,000	22,000	24,000
Lead	35	5.4	6.7	6.0	6.2	3.5	6.3	5.0
Magnesium	17,000	7,000	6,200	20,000	3,300	2,800	6,200	5,700
Manganese	230	120	130	100	340	120	330	470
Nickel	22	20	18	3.9	11	3.1	11	10
Potassium	5,000	1,200	1,200	630	680	740	2,500	1,800
Selenium	3.7 U	3.0 U	3.0 U	0.85 U	1.3 U	1.2 U	1.8 U	2.2 U
Silver	0.91 U	0.76 U	0.75 U	0.21 U	0.31 U	0.31 U	0.46 U	0.54 U
Sodium	19,000	11,000	8,800	4,100	3,300	4,300	2,800	1,400
Thallium	3.7 U	3.0 U	3.0 U	0.85 U	1.3 U	1.2 U	1.8 U	2.2 U
Vanadium	**170**	**99**	**62**	**18**	**50**	**45**	**88**	**110**
Zinc	62	32	42	17	24	16	51	58
Mercury	**0.461**	**0.095**	**0.233**	0.041 U	0.052 U	0.050 U	0.044 U	0.055 U

All resuts are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detect above the Reporting Limit are in **BOLD**.

Table 26
Sediment Sampling Results - TOC and Grain Size
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ACC-SW01	ACC-SW04	ACC-SW05	ACC-SW06	ACC-SW07	MAN-SW08	MAN-SW09	MAN-SW10	MAN-SW11	MAN-SW12	MAN-SW13	MAN-SW14
Field Sample ID:	**ACC-SD01**	**ACC-SD04**	**ACC-SD05**	**ACC-SD06**	**ACC-SD07**	**MAN-SD08**	**MAN-SD09**	**MAN-SD10**	**MAN-SD11**	**MAN-SD12**	**MAN-SD13**	**MAN-SD14**
Date:	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	69,000	67,000	170,000	31,000	84,000	50,000	66,000	43,000	99,000	24,000	70,000	60,000
Grain Size												
% Gravel & Larger >2.0 mm	51	30	0.1 U	34	26	30	0.1 U	2.3	92 J	4.4	55	7.1
% Very Coarse Sand >1 - 2 mm	16	11	5.8	20	4.4	10	5.7	4.2	4.4 J	13	21	13
% Coarse Sand >0.42 - 2.0 mm	15	16	4.7	32	4.4	19	24	4.8	1.8 J	32	5.4	8.2
% Medium Sand >.25 - .5 mm	12	16	5.6	9.6	8.6	23	47	6.3	0.9 J	23	2.8	22
% Fine Sand >.125 - .25 mm	3.6	7.3	5.3	0.8	18	13	20	8.2	0.4 J	19	1.6	29
% Very Fine Sand >.0625 - .125 mm	0.4	3	2.4	0.2	19	1.3	1.1	7.2	0.2 J	2.2	0.5	3.1
% Silt	NR	8.2	39	NR	13	2	NR	38	NR	NR	7.4	7.8
% Clay & Colloids	NR	8.3	37	NR	6.4	2.2	NR	29	NR	NR	6.2	10
%Silt + % Clay/Colloids (%Total Fines)	1.8	16.5	76	2.4	19.4	4.2	3.2	67	0.1 J	6.2	13.6	17.8

TOC results are in milligrams per kilogram (mg/kg)
Grain-size results are in % by weight.
NR = The silt, clay & colloids fractions were too small to report separately, therefore, only the total silt/clay/colloids fraction was reported for these samples.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.

Table 26
Sediment Sampling Results - TOC and Grain Size
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	MAN-SW15	MAN-SW16	MAN-SW17	MAN-SW19	MAN-SW20	MAN-SW21	WES-SW22	WES-SW23	WES-SW24	WES-SW25	LCP-SW26
Field Sample ID:	**MAN-SD15**	**MAN-SD16**	**MAN-SD17**	**MAN-SD19**	**MAN-SD20**	**MAN-SD21**	**WES-SD22**	**WES-SD23**	**WES-SD24**	**WES-SD25**	**LCP-SD26**
Date:	**9/12/2011**	**9/12/2011**	**9/14/2011**	**9/15/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/15/2011**	**9/14/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	-	**Dup of WES-SD22**	-	-	-
Total Organic Carbon (TOC)	62,000	65,000	82,000 J	41,000	78,000 J	48,000 J	24,000	29,000	35,000	22,000	54,000
Grain Size											
% Gravel & Larger >2.0 mm	12	8.4	37	17	2.5	8.1	21	10	20	3.8	21
% Very Coarse Sand >1 - 2 mm	37	22	15	11	12	4.5	5.9	5.3	6.8	7.4	8.1
% Coarse Sand >0.42 - 2.0 mm	21	45	9.5	16	4.7	3.3	7.1	8.6	5.6	20	6.7
% Medium Sand >.25 - .5 mm	6.1	14	6.3	14	3.5	4.4	6.7	7.7	6.1	25	9.3
% Fine Sand >.125 - .25 mm	2.6	1.2	3.9	9.2	3.3	7	5.5	6.2	7.9	16	13
% Very Fine Sand >.0625 - .125 mm	1.3	0.2	4.1	6.3	2.8	6	3.6	4.4	6.5	6	8.4
% Silt	NR	3.9	9.9	20	51	30	33	36	30	12	18
% Clay & Colloids	NR	5	14	6.2	20	37	17	21	17	10	16
%Silt + % Clay/Colloids (%Total Fines)	20	8.9	23.9	26.2	71	67	50	57	47	22	34

TOC results are in milligrams per kilogram (mg/kg)
Grain-size results are in % by weight.
NR = The silt, clay & colloids fractions were too small to report separately, therefore, only the total silt/clay/colloids fraction was reported for these samples.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.

Table 26
Sediment Sampling Results - TOC and Grain Size
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	LCP-SW27	LCP-SW28	LCP-SW29	LCP-SW30	LCP-SW31	LCP-SW32	LCP-SW33	UCP-SW34	UCP-SW35	UCP-SW36	UCP-SW37	UCP-SW38
Field Sample ID:	**LCP-SD27**	**LCP-SD28**	**LCP-SD29**	**LCP-SD30**	**LCP-SD31**	**LCP-SD32**	**LCP-SD33**	**UCP-SD34**	**UCP-SD35**	**UCP-SD36**	**UCP-SD37**	**UCP-SD38**
Date:	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/15/2011**	**9/14/2011**	**9/16/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	53,000	71,000	14,000	49,000	32,000 J	92,000 J	12,000 J	9,100	16,000	18,000	11,000	9,700
Grain Size												
% Gravel & Larger >2.0 mm	0.1 U	39	12	15	3.7 J	9.2	12 J	13	3.1	9.8	2	0.1 U
% Very Coarse Sand >1 - 2 mm	27	19	11	11	11 J	28	36 J	15	7.5	2.7	2	0.9
% Coarse Sand >0.42 - 2.0 mm	7.1	17	16	10	27 J	7.2	22 J	18	22	4.4	4.8	1.1
% Medium Sand >.25 - .5 mm	3.3	14	18	14	27 J	4.1	11 J	14	29	8.3	6.8	2.6
% Fine Sand >.125 - .25 mm	2.7	4.9	16	22	19 J	2.8	6.6 J	8.9	13	12	6.5	5.2
% Very Fine Sand >.0625 - .125 mm	3.5	0.6	6.5	8.7	10 J	1.7	2.8 J	7.2	5	8.8	4.8	2.7
% Silt	35	0.2	16	9.9	NR	24	NR	15	9.1	40	39	52
% Clay & Colloids	21	4.3	5.3	9	NR	24	NR	9.5	11	14	34	35
%Silt + % Clay/Colloids (%Total Fines)	56	4.5	21.3	18.9	2.7 J	48	10 J	24.5	20.1	54	73	87

TOC results are in milligrams per kilogram (mg/kg)
Grain-size results are in % by weight.
NR = The silt, clay & colloids fractions were too small to report separately, therefore, only the total silt/clay/colloids fraction was reported for these samples.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.

Table 26
Sediment Sampling Results - TOC and Grain Size
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	UCP-SW39	UCP-SW40	UCP-SW41	RMS-SW42	RMS-SW42	RMS-SW45	RMS-SW46	RMS-SW47	ADP-SW48	ADP-SW49	ADP-SW50
Field Sample ID:	**UCP-SD39**	**UCP-SD40**	**UCP-SD41**	**RMS-SD42**	**RMS-SD43**	**RMS-SD45**	**RMS-SD46**	**RMS-SD47**	**ADP-SD48**	**ADP-SD49**	**ADP-SD50**
Date:	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/15/2011**	**9/15/2011**	**9/14/2011**	**9/15/2011**	**9/15/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	**Dup of RMS-**	-	-	-	-	-	-
Total Organic Carbon (TOC)	14,000	15,000	18,000	28,000	30,000	32,000	24,000	3,600	11,000	290,000	260,000
Grain Size											
% Gravel & Larger >2.0 mm	0.1	0.1 U	0.9	0.1 U	0.1	1.1	9.4	0.4	34	33	15
% Very Coarse Sand >1 - 2 mm	1	0.1 U	1	0.1 U	0.1 U	0.6	2.5	0.6	11	6.3	3.5
% Coarse Sand >0.42 - 2.0 mm	1.4	0.3	2	0.3	0.3	0.7	4.3	3.8	6.3	5.2	6.3
% Medium Sand >.25 - .5 mm	4	1.7	2.8	1.7	1.6	2.3	5.5	21	5	10	21
% Fine Sand >.125 - .25 mm	5.4	6.3	2.6	6.5	6.3	6.1	5.6	32	5.1	13	15
% Very Fine Sand >.0625 - .125 mm	3.2	11	2.4	9.1	8.5	12	5.3	11	3.9	9.2	7.2
% Silt	62	56	59	65	66	63	45	23	14	18	28
% Clay & Colloids	23	25	29	18	17	14	22	8.1	20	4.8	4.7
%Silt + % Clay/Colloids (%Total Fines)	85	81	88	83	83	77	67	31.1	34	22.8	32.7

TOC results are in milligrams per kilogram (mg/kg)
Grain-size results are in % by weight.
NR = The silt, clay & colloids fractions were too small to report separately, therefore, only the total silt/clay/colloids fraction was reported for these samples.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.

Table 26
Sediment Sampling Results - TOC and Grain Size
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ADP-SW51	ACC-SW52	BG-SW53	BG-SW54	BG-SW55	BG-SW56
Field Sample ID:	**ADP-SD51**	**ACC-SD52**	**BG-SD53**	**BG-SD54**	**BG-SD55**	**BG-SD56**
Date:	**9/14/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-
Total Organic Carbon (TOC)	290,000	63,000	7,600	1,000 U	18,000	5,300
Grain Size						
% Gravel & Larger >2.0 mm	0.4	24	13	14	9.1	8.1
% Very Coarse Sand >1 - 2 mm	1	22	26	16	5.3	5.1
% Coarse Sand >0.42 - 2.0 mm	2.6	15	28	31	5.8	10
% Medium Sand >.25 - .5 mm	12	11	14	21	9	16
% Fine Sand >.125 - .25 mm	14	7.5	13	15	13	14
% Very Fine Sand >.0625 - .125 mm	12	4.7	2.8	1.8	8.7	8.2
% Silt	48	9.7	NR	2	28	22
% Clay & Colloids	9.2	5.9	NR	0.1 U	21	16
%Silt + % Clay/Colloids (%Total Fines)	57.2	15.6	3.4	2.1	49	38

TOC results are in milligrams per kilogram (mg/kg)
Grain-size results are in % by weight.
NR = The silt, clay & colloids fractions were too small to report separately, therefore, only the total silt/clay/colloids fraction was reported for these samples.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.

Table 27
Ground Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	VW37		G-9		VW16		G-11		GM-13D		GM-22	
Field Sample ID:	**SCA-GW01**	**SCA-GW01F**	**SCA-GW02**	**SCA-GW02F**	**SCA-GW03**	**SCA-GW03F**	**SCA-GW04**	**SCA-GW04F**	**SCA-GW05**	**SCA-GW05F**	**SCA-GW06**	**SCA-GW06F**
Date:	**9/20/2011**	**9/20/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**
Depth:	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Comments:	-	-	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	7.51	-	7.27	-	6.72	-	7.76	-	9.28	-	12.78	-
Inorganics												
Aluminum	1,000	100 U	150	100 U	100 U	100 U	100 U	100 U	100 U	100 U	320,000	330,000
Antimony	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	**180**	**180**	**2,700**	**2,800**
Barium	100 U	100 U	100 U	100 U	140	130	100 U	100 U	100 U	100 U	100 U	100 U
Beryllium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	49,000	42,000	74,000	69,000	78,000	77,000	93,000	92,000	6,900	6,700	500	500 U
Chromium	**5.1**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**1,400**	**1,300**
Cobalt	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Iron	1,100	50 U	290	50 U	690	710	50 U	50 U	50 U	50 U	170	50 U
Lead	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Magnesium	30,000	30,000	75,000	77,000	57,000	54,000	250,000	260,000	49,000	48,000	500 U	500 U
Manganese	29	5.0 U	16	5.0 U	640	630	35	37	20	22	5.0 U	5.0 U
Nickel	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	13,000	13,000	30,000	30,000	18,000	17,000	120,000	120,000	28,000	28,000	79,000	78,000
Selenium	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**350**	**360**
Silver	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	330,000	330,000	120,000	110,000	490,000	480,000	3,900,000 D^{25}	3,900,000 D^{25}	2,300,000 D^{25}	2,300,000 D^{25}	5,900,000 D^{25}	6,100,000 D^{25}
Thallium	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**28**	**27**	**18,000**	**18,000**
Zinc	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Mercury	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	**0.501**	**0.468**
Chloride (mg/L)	280 D^{20}	-	350 D^{10}	-	770 D^{20}	-	5,800 D^{250}	-	2,300 D^{500}	-	1,400 D^{125}	-

All results are in micrograms per liter (ug/L) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.
Maximum Contaminant Level (MCL) and Secondary MCL exceeda

Table 27
Ground Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	VW25		GM-14		GM-19		GM-18			
Field Sample ID:	**SCA-GW07**	**SCA-GW07F**	**SCA-GW08**	**SCA-GW08F**	**SCA-GW09**	**SCA-GW09F**	**SCA-GW10**	**SCA-GW10F**	**SCA-GW11**	**SCA-GW11F**
Date:	**9/19/2011**	**9/19/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**
Depth:	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Comments:	-	-	-	-	-	-	-	-	**Dup of SCA-GW10**	**Dup of SCA-GW10F**
pH (Standard Units)	7.19	-	7.40	-	7.55	-	7.98	-	7.98	-
Inorganics										
Aluminum	100 U	100 U	100 U	100 U	100 U	100 U	340	100 U	350	100 U
Antimony	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	**17 J**	**8.3 J**	8.0 U	8.0 U	8.0 U	8.0 U	**110**	**120**	**110**	**130**
Barium	100 U	100 U	360	360	100 U	100 U	100 U	100 U	100 U	100 U
Beryllium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	66,000	77,000	160,000	170,000	340,000	340,000	1,500	670	1,600	770
Chromium	**41**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Iron	940	50 U	1,500	1,100	61	50 U	230	50 U	240	50 U
Lead	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Magnesium	51,000	58,000	170,000	180,000	1,200,000 D^{25}	1,200,000 D^{25}	13,000	13,000	13,000	14,000
Manganese	35	50	350	340	5,400	5,300	5.0 U	5.0 U	5.0 U	5.3
Nickel	170	170	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	17,000	18,000	24,000	24,000	400,000 D^{25}	400,000 D^{25}	69,000	70,000	70,000	76,000
Selenium	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Silver	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	1,700,000 D^{25}	1,700,000 D^{25}	1,200,000 D^{25}	1,300,000 D^{25}	10,000,000 D^{25}	9,900,000 D^{25}	3,500,000 D^{25}	3,500,000 D^{25}	3,600,000 D^{25}	3,700,000 D^{25}
Thallium	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	**77**	**42**	20 U	20 U	20 U	20 U	**38**	**35**	**39**	**37**
Zinc	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Mercury	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloride (mg/L)	660 D^{100}	-	770 D^{100}	-	15,000 D^{500}	-	2,200 D^{500}	-	2,500 D^{250}	-

All results are in micrograms per liter (ug/L) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.
Maximum Contaminant Level (MCL) and Secondary MCL exceedances

Table 28
Rinsate Blank Sampling Results - Inorganics and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	WST- RIN01	WST- RIN02	MW-RIN03	WST-RIN05	SD-RIN06
Weston Sample ID:	WST- RIN01	WST- RIN02	MW-RIN03	WST-RIN05	SD-RIN06
Date:	09/15/2011	9/16/2011	9/19/2011	9/19/2011	9/12/2011
Comments:	hand auger	hand auger	bladder pump	hand auger	hand auger
Inorganics					
Aluminum	100 U	100 U	100 U	100 U	100 U
Antimony	20 U	20 U	20 U	20 U	20 U
Arsenic	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Barium	100 U	100 U	100 U	100 U	100 U
Beryllium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	500 U	500 U	500 U	500 U	500 U
Chromium	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	20 U	20 U	20 U	20 U	20 U
Copper	10 U	10 U	10 U	10 U	10 U
Iron	50 U	50 U	50 U	50 U	50 U
Lead	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Magnesium	500 U	500 U	500 U	500 U	500 U
Manganese	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Nickel	20 U	20 U	20 U	20 U	20 U
Potassium	500 U	500 U	1000 U	1000 U	550
Selenium	20 U	20 U	20 U	20 U	20 U
Silver	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	1000 U	1000 U	1000 U	1000 U	1000 U
Thallium	20 U	20 U	20 U	20 U	20 U
Vanadium	20 U	20 U	20 U	20 U	20 U
Zinc	20 U	20 U	20 U	20 U	20 U
Mercury	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloride (mg/L)	-	-	1.0 U	-	-

All results are in micrograms per liter (µg/L) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.

Table 29: Background Gamma Count Rate Measurements Collected Northeast of the Site				
Location	**Measurement on Contact (cpm)**	**Surface**	**Latitude**	**Longitude**
SCRMBKG_01	4878	Soil	17.71440000	-64.77426167
SCRMBKG_02	3977	Soil	17.71439000	-64.77408333
SCRMBKG_03	5982	Soil	17.71460500	-64.77392833
SCRMBKG_04	5293	Soil	17.71502667	-64.77309500
SCRMBKG_05	5633	Soil	17.71502667	-64.77309500
SCRMBKG_05	5750	Soil	17.71502667	-64.77309500
SCRMBKG_06	5615	Soil	17.71508333	-64.77284333
SCRMBKG_07	5829	Soil	17.71514167	-64.77260500
SCRMBKG_08	5053	Soil	17.71477833	-64.77264667
SCRMBKG_09	4669	Soil	17.71473500	-64.77280667
SCRMBKG_10	4983	Soil	17.71459000	-64.77332167
SCRMBKG_11	4663	Soil	17.71459000	-64.77332167

Minimum =	**3977**
Maximum =	**5982**
Median =	**5173**
Arithmeic Mean =	**5194**
One Sigma =	**597**
Two Sigma =	**1193**

Table 30: Background Exposure Rate Measurements Collected Northeast of the Site				
Location	**Measurement on Contact (μR/h)**	**Surface**	**Latitude**	**Longitude**
BG-S07	5	Soil	17.7144667	-64.775165
BG-S08	4	Soil	17.715925	-64.7746517
BG-S09	3	Soil	17.7175117	-64.7733317
BG-S10	3	Soil	-----	-----
BG-S11	3	Soil	17.7165767	-64.7699733
BG-S12	5	Soil	17.7148433	-64.7721033
BG-S13	3	Soil	17.7139583	-64.77364
BG-S14	3	Soil	17.7141183	-64.7701833
BG-S15	3	Soil	17.7119333	-64.7696067

Minimum =	**3**
Maximum =	**5**
Median =	**3**
Arithmetic Mean =	**3.6**
One Sigma =	**0.9**
Two Sigma =	**1.8**

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311359.4356	1959487.484	-64.77886167	17.71447167	2740	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2780	cpm	soil	0.25
0*	0*	0*	0*	2810	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2840	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2830	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2770	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2850	cpm	soil	0.25
0*	0*	0*	0*	2850	cpm	soil	0.25
311359.2571	1959487.301	-64.77886333	17.71447	2780	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
311359.2571	1959487.301	-64.77886333	17.71447	2850	cpm	soil	0.25
311358.5499	1959487.308	-64.77887	17.71447	2800	cpm	soil	0.25
0*	0*	0*	0*	2750	cpm	soil	0.25
311358.5499	1959487.308	-64.77887	17.71447	2840	cpm	soil	0.25
311358.0196	1959487.313	-64.778875	17.71447	2840	cpm	soil	0.25
311356.0714	1959486.962	-64.77889333	17.71446667	2810	cpm	soil	0.25
311353.9464	1959486.614	-64.77891333	17.71446333	2830	cpm	soil	0.25
311352.1751	1959486.261	-64.77893	17.71446	2710	cpm	soil	0.25
311350.4037	1959485.909	-64.77894667	17.71445667	2550	cpm	soil	0.25
311348.4555	1959485.559	-64.778965	17.71445333	2480	cpm	soil	0.25
311346.3323	1959485.394	-64.778985	17.71445167	2360	cpm	soil	0.25
311344.3841	1959485.044	-64.77900333	17.71444833	2300	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311338.7182	1959484.175	-64.77905667	17.71444	2050	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
311334.4613	1959482.739	-64.77909667	17.71442667	1960	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
311319.9279	1959479.003	-64.77923333	17.71439167	2070	cpm	soil	0.25
311317.9763	1959478.283	-64.77925167	17.714385	2050	cpm	soil	0.25
311315.671	1959477.567	-64.77927333	17.71437833	2070	cpm	soil	0.25
311314.9621	1959477.389	-64.77928	17.71437667	2110	cpm	soil	0.25
311312.1265	1959476.678	-64.77930667	17.71437	2190	cpm	soil	0.25
311310.0016	1959476.329	-64.77932667	17.71436667	2270	cpm	soil	0.25
311308.2267	1959475.608	-64.77934333	17.71436	2360	cpm	soil	0.25
311306.2785	1959475.258	-64.77936167	17.71435667	2370	cpm	soil	0.25
311304.6822	1959474.719	-64.77937667	17.71435167	2510	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311303.2591	1959473.81	-64.77939	17.71434333	2480	cpm	soil	0.25
0*	0*	0*	0*	2530	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
311297.5827	1959471.835	-64.77944333	17.714325	2700	cpm	soil	0.25
311295.6345	1959471.484	-64.77946167	17.71432167	2750	cpm	soil	0.25
311293.8614	1959470.947	-64.77947833	17.71431667	2780	cpm	soil	0.25
0*	0*	0*	0*	2730	cpm	soil	0.25
311290.3134	1959469.69	-64.77951167	17.714305	2680	cpm	soil	0.25
311288.1867	1959469.156	-64.77953167	17.7143	2730	cpm	soil	0.25
0*	0*	0*	0*	2770	cpm	soil	0.25
0*	0*	0*	0*	2740	cpm	soil	0.25
0*	0*	0*	0*	2860	cpm	soil	0.25
311280.3783	1959466.094	-64.779605	17.71427167	2820	cpm	soil	0.25
311278.4284	1959465.559	-64.77962333	17.71426667	2930	cpm	soil	0.25
311276.4785	1959465.024	-64.77964167	17.71426167	2920	cpm	soil	0.25
311274.7036	1959464.303	-64.77965833	17.714255	2960	cpm	soil	0.25
311272.7537	1959463.768	-64.77967667	17.71425	3010	cpm	soil	0.25
0*	0*	0*	0*	3100	cpm	soil	0.25
311268.8538	1959462.698	-64.77971333	17.71424	3180	cpm	soil	0.25
311265.8414	1959461.988	-64.77974167	17.71423333	3170	cpm	soil	0.25
0*	0*	0*	0*	3190	cpm	soil	0.25
0*	0*	0*	0*	3190	cpm	soil	0.25
311259.9882	1959460.015	-64.77979667	17.714215	3090	cpm	soil	0.25
311258.0365	1959459.295	-64.779815	17.71420833	2950	cpm	soil	0.25
311257.1474	1959458.75	-64.77982333	17.71420333	2960	cpm	soil	0.25
311255.1957	1959458.031	-64.77984167	17.71419667	2920	cpm	soil	0.25
0*	0*	0*	0*	2930	cpm	soil	0.25
311250.4119	1959456.969	-64.77988667	17.71418667	2760	cpm	soil	0.25
0*	0*	0*	0*	2700	cpm	soil	0.25
311244.7372	1959455.178	-64.77994	17.71417	2640	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
311241.5463	1959454.286	-64.77997	17.71416167	2540	cpm	soil	0.25
0*	0*	0*	0*	2430	cpm	soil	0.25
311237.4696	1959453.217	-64.78000833	17.71415167	2360	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
311233.3912	1959451.965	-64.78004667	17.71414	2250	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
311227.0041	1959449.627	-64.78010667	17.71411833	2210	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311222.9293	1959448.743	-64.780145	17.71411	2150	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311218.8544	1959447.859	-64.78018333	17.71410167	2150	cpm	soil	0.25
311216.9044	1959447.324	-64.78020167	17.71409667	2110	cpm	soil	0.25
311216.017	1959446.963	-64.78021	17.71409333	2120	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311210.3336	1959444.25	-64.78026333	17.71406833	2080	cpm	soil	0.25
311209.2693	1959443.891	-64.78027333	17.714065	2030	cpm	soil	0.25
311208.3819	1959443.531	-64.78028167	17.71406167	2010	cpm	soil	0.25
311206.2517	1959442.628	-64.78030167	17.71405333	1970	cpm	soil	0.25
311204.2983	1959441.724	-64.78032	17.714045	1980	cpm	soil	0.25
311202.7002	1959441.002	-64.780335	17.71403833	1990	cpm	soil	0.25
311201.4557	1959440.275	-64.78034667	17.71403167	1990	cpm	soil	0.25
311200.5683	1959439.915	-64.780355	17.71402833	2030	cpm	soil	0.25
311200.5683	1959439.915	-64.780355	17.71402833	2060	cpm	soil	0.25
311200.5683	1959439.915	-64.780355	17.71402833	2070	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311197.1901	1959437.918	-64.78038667	17.71401	2070	cpm	soil	0.25
0*	0*	0*	0*	2080	cpm	soil	0.25
311193.2815	1959435.925	-64.78042333	17.71399167	2060	cpm	soil	0.25
311191.6834	1959435.203	-64.78043833	17.713985	2060	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311188.1319	1959433.576	-64.78047167	17.71397	2130	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311185.1143	1959432.313	-64.7805	17.71395833	2290	cpm	soil	0.25
311182.2734	1959431.049	-64.78052667	17.71394667	2260	cpm	soil	0.25
311180.1432	1959430.146	-64.78054667	17.71393833	2400	cpm	soil	0.25
311179.0755	1959429.418	-64.78055667	17.71393167	2410	cpm	soil	0.25
311176.0561	1959427.971	-64.780585	17.71391833	2480	cpm	soil	0.25
311175.3437	1959427.425	-64.78059167	17.71391333	2480	cpm	soil	0.25
311173.5653	1959426.334	-64.78060833	17.71390333	2460	cpm	soil	0.25
311171.0746	1959424.698	-64.78063167	17.71388833	2490	cpm	soil	0.25
311170.1854	1959424.153	-64.78064	17.71388333	2470	cpm	soil	0.25
311167.166	1959422.705	-64.78066833	17.71387	2440	cpm	soil	0.25
311165.5679	1959421.983	-64.78068333	17.71386333	2360	cpm	soil	0.25
311164.8572	1959421.62	-64.78069	17.71386	2250	cpm	soil	0.25
311160.231	1959418.528	-64.78073333	17.71383167	2210	cpm	soil	0.25
311158.6277	1959417.252	-64.78074833	17.71382	2150	cpm	soil	0.25
311157.7385	1959416.707	-64.78075667	17.713815	2050	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
311151.1537	1959412.157	-64.78081833	17.71377333	1900	cpm	soil	0.25
311149.5538	1959411.25	-64.78083333	17.713765	1920	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311149.5538	1959411.25	-64.78083333	17.713765	1890	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
311148.8432	1959410.888	-64.78084	17.71376167	1790	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
311146.3524	1959409.251	-64.78086333	17.71374667	1850	cpm	soil	0.25
311143.8616	1959407.614	-64.78088667	17.71373167	1830	cpm	soil	0.25
311142.078	1959405.971	-64.78090333	17.71371667	1790	cpm	soil	0.25
311141.1854	1959405.057	-64.78091167	17.71370833	1810	cpm	soil	0.25
311139.5785	1959403.412	-64.78092667	17.71369333	1800	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311135.1186	1959399.211	-64.78096833	17.713655	1850	cpm	soil	0.25
311133.5118	1959397.566	-64.78098333	17.71364	1920	cpm	soil	0.25
311131.7282	1959395.922	-64.781	17.713625	1960	cpm	soil	0.25
311130.3017	1959394.645	-64.78101333	17.71361333	2040	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
311126.9182	1959392.094	-64.781045	17.71359	2160	cpm	soil	0.25
311125.3131	1959390.633	-64.78106	17.71357667	2200	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
0*	0*	0*	0*	2360	cpm	soil	0.25
311118.7161	1959384.792	-64.78112167	17.71352333	2360	cpm	soil	0.25
311116.9342	1959383.333	-64.78113833	17.71351	2440	cpm	soil	0.25
311115.1506	1959381.69	-64.781155	17.713495	2530	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
0*	0*	0*	0*	2680	cpm	soil	0.25
311111.0512	1959378.224	-64.78119333	17.71346333	2680	cpm	soil	0.25
311109.4462	1959376.763	-64.78120833	17.71345	2700	cpm	soil	0.25
0*	0*	0*	0*	2740	cpm	soil	0.25
311106.0487	1959372.737	-64.78124	17.71341333	2710	cpm	soil	0.25
311105.1578	1959372.007	-64.78124833	17.71340667	2700	cpm	soil	0.25
311102.6583	1959369.448	-64.78127167	17.71338333	2670	cpm	soil	0.25
0*	0*	0*	0*	2780	cpm	soil	0.25
311099.2713	1959366.529	-64.78130333	17.71335667	2700	cpm	soil	0.25
311097.1359	1959365.073	-64.78132333	17.71334333	2660	cpm	soil	0.25
311096.0682	1959364.345	-64.78133333	17.71333667	2570	cpm	soil	0.25
311094.2828	1959362.517	-64.78135	17.71332	2540	cpm	soil	0.25
311092.3137	1959359.953	-64.78136833	17.71329667	2470	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
311090.7086	1959358.493	-64.78138333	17.71328333	2390	cpm	soil	0.25
311087.3199	1959355.389	-64.781415	17.713255	2320	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311085.8881	1959353.557	-64.78142833	17.71323833	2270	cpm	soil	0.25
311085.7096	1959353.375	-64.78143	17.71323667	2250	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
311083.035	1959351.002	-64.781455	17.713215	2140	cpm	soil	0.25
311080.7141	1959348.625	-64.78147667	17.71319333	2080	cpm	soil	0.25
311079.284	1959346.979	-64.78149	17.71317833	2030	cpm	soil	0.25
311078.0308	1959345.33	-64.78150167	17.71316333	2040	cpm	soil	0.25
311077.3166	1959344.599	-64.78150833	17.71315667	2060	cpm	soil	0.25
311075.7115	1959343.138	-64.78152333	17.71314333	2060	cpm	soil	0.25
311073.3888	1959340.578	-64.781545	17.71312	2040	cpm	soil	0.25
311072.3106	1959338.743	-64.781555	17.71310333	2040	cpm	soil	0.25
311071.5947	1959337.828	-64.78156167	17.713095	2020	cpm	soil	0.25
311069.8041	1959335.446	-64.78157833	17.71307333	2040	cpm	soil	0.25
311068.5526	1959333.982	-64.78159	17.71306	2030	cpm	soil	0.25
311067.1226	1959332.336	-64.78160333	17.713045	2030	cpm	soil	0.25
311065.3407	1959330.877	-64.78162	17.71303167	2090	cpm	soil	0.25
311064.448	1959329.963	-64.78162833	17.71302333	2130	cpm	soil	0.25
311062.4771	1959327.214	-64.78164667	17.71299833	2110	cpm	soil	0.25
311061.763	1959326.483	-64.78165333	17.71299167	2130	cpm	soil	0.25
311060.1579	1959325.022	-64.78166833	17.71297833	2130	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311056.2126	1959319.156	-64.781705	17.712925	2080	cpm	soil	0.25
311055.1362	1959317.506	-64.781715	17.71291	2100	cpm	soil	0.25
311052.6384	1959315.132	-64.78173833	17.71288833	2120	cpm	soil	0.25
311051.7475	1959314.402	-64.78174667	17.71288167	2110	cpm	soil	0.25
311050.671	1959312.752	-64.78175667	17.71286667	2160	cpm	soil	0.25
311048.8787	1959310.186	-64.78177333	17.71284333	2250	cpm	soil	0.25
311047.4504	1959308.724	-64.78178667	17.71283	2340	cpm	soil	0.25
311046.3739	1959307.074	-64.78179667	17.712815	2410	cpm	soil	0.25
0*	0*	0*	0*	2460	cpm	soil	0.25
311043.6923	1959303.963	-64.78182167	17.71278667	2510	cpm	soil	0.25
311042.9765	1959303.048	-64.78182833	17.71277833	2550	cpm	soil	0.25
311041.7232	1959301.399	-64.78184	17.71276333	2570	cpm	soil	0.25
311039.7575	1959299.204	-64.78185833	17.71274333	2520	cpm	soil	0.25
311038.6846	1959297.923	-64.78186833	17.71273167	2500	cpm	soil	0.25
0*	0*	0*	0*	2560	cpm	soil	0.25
311037.2353	1959294.247	-64.78188167	17.71269833	2640	cpm	soil	0.25
311035.8053	1959292.6	-64.781895	17.71268333	2640	cpm	soil	0.25
311034.5503	1959290.767	-64.78190667	17.71266667	2650	cpm	soil	0.25
311033.115	1959288.567	-64.78192	17.71264667	2740	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2770	cpm	soil	0.25
311030.787	1959285.453	-64.78194167	17.71261833	2780	cpm	soil	0.25
311030.4265	1959284.719	-64.781945	17.71261167	2750	cpm	soil	0.25
0*	0*	0*	0*	2700	cpm	soil	0.25
311028.2613	1959280.127	-64.781965	17.71257	2750	cpm	soil	0.25
0*	0*	0*	0*	2780	cpm	soil	0.25
311026.455	1959276.086	-64.78198167	17.71253333	2840	cpm	soil	0.25
0*	0*	0*	0*	2980	cpm	soil	0.25
311023.2361	1959272.242	-64.78201167	17.71249833	3100	cpm	soil	0.25
0*	0*	0*	0*	3200	cpm	soil	0.25
311020.7261	1959268.576	-64.782035	17.712465	3220	cpm	soil	0.25
311020.0032	1959266.923	-64.78204167	17.71245	3310	cpm	soil	0.25
0*	0*	0*	0*	3210	cpm	soil	0.25
311018.0253	1959263.437	-64.78206	17.71241833	3310	cpm	soil	0.25
0*	0*	0*	0*	3310	cpm	soil	0.25
0*	0*	0*	0*	3460	cpm	soil	0.25
311015.1512	1959258.667	-64.78208667	17.712375	3530	cpm	soil	0.25
0*	0*	0*	0*	3560	cpm	soil	0.25
311012.4575	1959254.265	-64.78211167	17.712335	3720	cpm	soil	0.25
311011.3793	1959252.431	-64.78212167	17.71231833	3860	cpm	soil	0.25
311010.301	1959250.596	-64.78213167	17.71230167	3870	cpm	soil	0.25
0*	0*	0*	0*	3770	cpm	soil	0.25
0*	0*	0*	0*	3860	cpm	soil	0.25
311009.944	1959250.231	-64.782135	17.71229833	3810	cpm	soil	0.25
311008.5157	1959248.768	-64.78214833	17.712285	3680	cpm	soil	0.25
311007.4374	1959246.934	-64.78215833	17.71226833	3640	cpm	soil	0.25
311006.7233	1959246.203	-64.782165	17.71226167	3680	cpm	soil	0.25
311004.5756	1959243.456	-64.782185	17.71223667	3810	cpm	soil	0.25
311003.3189	1959241.438	-64.78219667	17.71221833	4060	cpm	soil	0.25
311002.4157	1959239.418	-64.782205	17.7122	4020	cpm	soil	0.25
311001.3357	1959237.399	-64.782215	17.71218167	3790	cpm	soil	0.25
311000.7966	1959236.481	-64.78222	17.71217333	3520	cpm	soil	0.25
310999.1793	1959233.73	-64.782235	17.71214833	3440	cpm	soil	0.25
310998.1046	1959232.264	-64.782245	17.712135	3310	cpm	soil	0.25
0*	0*	0*	0*	3130	cpm	soil	0.25
310996.671	1959230.248	-64.78225833	17.71211667	3030	cpm	soil	0.25
310995.7783	1959229.334	-64.78226667	17.71210833	2960	cpm	soil	0.25
310994.5251	1959227.686	-64.78227833	17.71209333	2980	cpm	soil	0.25
310993.6254	1959226.034	-64.78228667	17.71207833	2920	cpm	soil	0.25
0*	0*	0*	0*	2910	cpm	soil	0.25
310991.8278	1959222.915	-64.78230333	17.71205	2940	cpm	soil	0.25
310990.9299	1959221.448	-64.78231167	17.71203667	3020	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310989.8569	1959220.166	-64.78232167	17.712025	3030	cpm	soil	0.25
310989.134	1959218.513	-64.78232833	17.71201	2970	cpm	soil	0.25
310988.9502	1959217.777	-64.78233	17.71200333	3020	cpm	soil	0.25
0*	0*	0*	0*	3040	cpm	soil	0.25
310986.0866	1959214.114	-64.78235667	17.71197	2960	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
0*	0*	0*	0*	3050	cpm	soil	0.25
310981.4516	1959210.1	-64.7824	17.71193333	3050	cpm	soil	0.25
310980.5519	1959208.448	-64.78240833	17.71191833	3060	cpm	soil	0.25
310980.0024	1959206.424	-64.78241333	17.7119	3040	cpm	soil	0.25
310979.4545	1959204.584	-64.78241833	17.71188333	3090	cpm	soil	0.25
310979.269	1959203.664	-64.78242	17.711875	3120	cpm	soil	0.25
310978.1925	1959202.014	-64.78243	17.71186	3170	cpm	soil	0.25
310977.2963	1959200.731	-64.78243833	17.71184833	3160	cpm	soil	0.25
310976.7555	1959199.629	-64.78244333	17.71183833	3130	cpm	soil	0.25
310975.679	1959197.979	-64.78245333	17.71182333	3110	cpm	soil	0.25
310974.4257	1959196.33	-64.782465	17.71180833	3160	cpm	soil	0.25
310973.1707	1959194.498	-64.78247667	17.71179167	3310	cpm	soil	0.25
310971.7389	1959192.666	-64.78249	17.711775	3210	cpm	soil	0.25
0*	0*	0*	0*	3240	cpm	soil	0.25
310969.9431	1959189.732	-64.78250667	17.71174833	3200	cpm	soil	0.25
310968.3327	1959187.718	-64.78252167	17.71173	3300	cpm	soil	0.25
310966.7119	1959184.597	-64.78253667	17.71170167	3340	cpm	soil	0.25
310966.1728	1959183.68	-64.78254167	17.71169333	3230	cpm	soil	0.25
310964.559	1959181.297	-64.78255667	17.71167167	3090	cpm	soil	0.25
310963.4807	1959179.462	-64.78256667	17.711655	3090	cpm	soil	0.25
310961.8721	1959177.633	-64.78258167	17.71163833	3010	cpm	soil	0.25
0*	0*	0*	0*	2970	cpm	soil	0.25
310959.0138	1959174.523	-64.78260833	17.71161	3060	cpm	soil	0.25
310958.4782	1959173.975	-64.78261333	17.711605	3100	cpm	soil	0.25
310957.2266	1959172.511	-64.782625	17.71159167	3070	cpm	soil	0.25
310955.4377	1959170.314	-64.78264167	17.71157167	3060	cpm	soil	0.25
310954.5398	1959168.847	-64.78265	17.71155833	3090	cpm	soil	0.25
310953.8239	1959167.931	-64.78265667	17.71155	3050	cpm	soil	0.25
310952.0333	1959165.55	-64.78267333	17.71152833	3110	cpm	soil	0.25
0*	0*	0*	0*	3160	cpm	soil	0.25
310949.8838	1959162.619	-64.78269333	17.71150167	3120	cpm	soil	0.25
310949.3482	1959162.071	-64.78269833	17.71149667	3090	cpm	soil	0.25
310948.0897	1959159.869	-64.78271	17.71147667	2990	cpm	soil	0.25
310947.5523	1959159.136	-64.782715	17.71147	3110	cpm	soil	0.25
310946.4759	1959157.486	-64.782725	17.711455	3100	cpm	soil	0.25
310945.7442	1959154.91	-64.78273167	17.71143167	3030	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2970	cpm	soil	0.25
310944.484	1959152.524	-64.78274333	17.71141	2920	cpm	soil	0.25
310942.8701	1959150.141	-64.78275833	17.71138833	2890	cpm	soil	0.25
310942.5096	1959149.406	-64.78276167	17.71138167	2880	cpm	soil	0.25
310941.6046	1959147.201	-64.78277	17.71136167	2820	cpm	soil	0.25
310940.7067	1959145.734	-64.78277833	17.71134833	2900	cpm	soil	0.25
310940.1693	1959145.001	-64.78278333	17.71134167	2940	cpm	soil	0.25
0*	0*	0*	0*	2880	cpm	soil	0.25
0*	0*	0*	0*	2860	cpm	soil	0.25
310935.5116	1959138.588	-64.78282667	17.71128333	2920	cpm	soil	0.25
310934.2478	1959135.833	-64.78283833	17.71125833	2960	cpm	soil	0.25
310932.6445	1959134.557	-64.78285333	17.71124667	2880	cpm	soil	0.25
310930.8608	1959132.914	-64.78287	17.71123167	2910	cpm	soil	0.25
310929.7896	1959131.817	-64.78288	17.71122167	2930	cpm	soil	0.25
310929.7896	1959131.817	-64.78288	17.71122167	3020	cpm	soil	0.25
310927.8169	1959128.884	-64.78289833	17.711195	3020	cpm	soil	0.25
310926.7404	1959127.234	-64.78290833	17.71118	3000	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3010	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	2960	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3040	cpm	soil	0.25
0*	0*	0*	0*	2960	cpm	soil	0.25
0*	0*	0*	0*	2970	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3040	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3090	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3070	cpm	soil	0.25
310926.2031	1959126.501	-64.78291333	17.71117333	3020	cpm	soil	0.25
0*	0*	0*	0*	3120	cpm	soil	0.25
310924.9446	1959124.299	-64.782925	17.71115333	2980	cpm	soil	0.25
310923.5093	1959122.099	-64.78293833	17.71113333	3040	cpm	soil	0.25
310922.0827	1959120.821	-64.78295167	17.71112167	3070	cpm	soil	0.25
310921.3703	1959120.274	-64.78295833	17.71111667	3000	cpm	soil	0.25
310920.1083	1959117.704	-64.78297	17.71109333	2920	cpm	soil	0.25
310919.0283	1959115.685	-64.78298	17.711075	2930	cpm	soil	0.25
310917.9518	1959114.035	-64.78299	17.71106	2990	cpm	soil	0.25
0*	0*	0*	0*	2990	cpm	soil	0.25
310916.1594	1959111.469	-64.78300667	17.71103667	3010	cpm	soil	0.25
310914.7189	1959108.715	-64.78302	17.71101167	3000	cpm	soil	0.25
310914.1798	1959107.798	-64.783025	17.71100333	3030	cpm	soil	0.25
310913.2783	1959105.962	-64.78303333	17.71098667	3090	cpm	soil	0.25
0*	0*	0*	0*	3100	cpm	soil	0.25
310911.2952	1959101.922	-64.78305167	17.71095	2970	cpm	soil	0.25
310910.9346	1959101.188	-64.783055	17.71094333	2890	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310910.9346	1959101.188	-64.783055	17.71094333	2810	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
310910.7543	1959100.82	-64.78305667	17.71094	2870	cpm	soil	0.25
310910.7543	1959100.82	-64.78305667	17.71094	2900	cpm	soil	0.25
310910.7543	1959100.82	-64.78305667	17.71094	3000	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
310910.2047	1959098.796	-64.78306167	17.71092167	3010	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
310908.927	1959094.565	-64.78307333	17.71088333	3070	cpm	soil	0.25
310908.0256	1959092.729	-64.78308167	17.71086667	3020	cpm	soil	0.25
310907.4829	1959091.443	-64.78308667	17.710855	3040	cpm	soil	0.25
310907.1259	1959091.077	-64.78309	17.71085167	3110	cpm	soil	0.25
0*	0*	0*	0*	3110	cpm	soil	0.25
0*	0*	0*	0*	3060	cpm	soil	0.25
310906.0267	1959087.029	-64.7831	17.710815	3130	cpm	soil	0.25
310905.1252	1959085.193	-64.78310833	17.71079833	3140	cpm	soil	0.25
310903.6987	1959083.915	-64.78312167	17.71078667	3200	cpm	soil	0.25
310902.4454	1959082.267	-64.78313333	17.71077167	3200	cpm	soil	0.25
310901.3672	1959080.432	-64.78314333	17.710755	3240	cpm	soil	0.25
0*	0*	0*	0*	3290	cpm	soil	0.25
310899.2107	1959076.763	-64.78316333	17.71072167	3270	cpm	soil	0.25
310897.9557	1959074.93	-64.783175	17.710705	3380	cpm	soil	0.25
0*	0*	0*	0*	3500	cpm	soil	0.25
310896.3313	1959071.44	-64.78319	17.71067333	3550	cpm	soil	0.25
310895.0763	1959069.608	-64.78320167	17.71065667	3610	cpm	soil	0.25
310894.5267	1959067.584	-64.78320667	17.71063833	3640	cpm	soil	0.25
310893.8038	1959065.93	-64.78321333	17.71062333	3620	cpm	soil	0.25
0*	0*	0*	0*	3550	cpm	soil	0.25
310892.7203	1959063.542	-64.78322333	17.71060167	3620	cpm	soil	0.25
310891.6351	1959060.97	-64.78323333	17.71057833	3850	cpm	soil	0.25
310890.9105	1959059.132	-64.78324	17.71056167	3920	cpm	soil	0.25
310890.1841	1959057.109	-64.78324667	17.71054333	3860	cpm	soil	0.25
310889.6345	1959055.085	-64.78325167	17.710525	4040	cpm	soil	0.25
310888.9081	1959053.063	-64.78325833	17.71050667	4140	cpm	soil	0.25
310888.544	1959051.96	-64.78326167	17.71049667	4190	cpm	soil	0.25
310887.9962	1959050.12	-64.78326667	17.71048	3980	cpm	soil	0.25
310886.9075	1959047.179	-64.78327667	17.71045333	3840	cpm	soil	0.25
310886.3649	1959045.892	-64.78328167	17.71044167	3800	cpm	soil	0.25
310885.9955	1959044.236	-64.783285	17.71042667	3900	cpm	soil	0.25
310885.628	1959042.763	-64.78328833	17.71041333	3740	cpm	soil	0.25
310885.2691	1959042.213	-64.78329167	17.71040833	3730	cpm	soil	0.25
310884.1874	1959040.01	-64.78330167	17.71038833	3850	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310883.6501	1959039.277	-64.78330667	17.71038167	3950	cpm	soil	0.25
310883.6501	1959039.277	-64.78330667	17.71038167	3870	cpm	soil	0.25
0*	0*	0*	0*	4090	cpm	soil	0.25
310883.8111	1959037.615	-64.783305	17.71036667	4040	cpm	soil	0.25
310884.1455	1959035.583	-64.78330167	17.71034833	3980	cpm	soil	0.25
310884.3048	1959033.736	-64.7833	17.71033167	4030	cpm	soil	0.25
310884.2856	1959031.707	-64.7833	17.71031333	4060	cpm	soil	0.25
310884.2664	1959029.678	-64.7833	17.710295	4100	cpm	soil	0.25
310884.2507	1959028.018	-64.7833	17.71028	4040	cpm	soil	0.25
310884.9334	1959025.429	-64.78329333	17.71025667	3820	cpm	soil	0.25
310885.28	1959024.688	-64.78329	17.71025	3700	cpm	soil	0.25
310885.4358	1959022.473	-64.78328833	17.71023	3620	cpm	soil	0.25
310885.6074	1959021.918	-64.78328667	17.710225	3640	cpm	soil	0.25
310885.6074	1959021.918	-64.78328667	17.710225	3690	cpm	soil	0.25
310885.6074	1959021.918	-64.78328667	17.710225	3540	cpm	soil	0.25
310886.1238	1959020.437	-64.78328167	17.71021167	3550	cpm	soil	0.25
310886.4704	1959019.696	-64.78327833	17.710205	3580	cpm	soil	0.25
310886.817	1959018.954	-64.783275	17.71019833	3510	cpm	soil	0.25
310887.4979	1959016.181	-64.78326833	17.71017333	3490	cpm	soil	0.25
0*	0*	0*	0*	3540	cpm	soil	0.25
310888.5255	1959012.666	-64.78325833	17.71014167	3510	cpm	soil	0.25
310888.8651	1959011.187	-64.783255	17.71012833	3620	cpm	soil	0.25
310889.0262	1959009.525	-64.78325333	17.71011333	3650	cpm	soil	0.25
310889.371	1959008.599	-64.78325	17.710105	3740	cpm	soil	0.25
310890.5806	1959005.636	-64.78323833	17.71007833	3620	cpm	soil	0.25
0*	0*	0*	0*	3640	cpm	soil	0.25
310891.4349	1959002.492	-64.78323	17.71005	3620	cpm	soil	0.25
310892.1229	1959000.456	-64.78322333	17.71003167	3630	cpm	soil	0.25
310892.4607	1958998.793	-64.78322	17.71001667	3730	cpm	soil	0.25
310893.3237	1958996.571	-64.78321167	17.70999667	3860	cpm	soil	0.25
0*	0*	0*	0*	3750	cpm	soil	0.25
310894.0047	1958993.797	-64.783205	17.70997167	3810	cpm	soil	0.25
310893.8104	1958991.954	-64.78320667	17.709955	3910	cpm	soil	0.25
310893.6144	1958989.927	-64.78320833	17.70993667	3790	cpm	soil	0.25
310893.5865	1958986.976	-64.78320833	17.70991	3770	cpm	soil	0.25
0*	0*	0*	0*	3770	cpm	soil	0.25
310894.9781	1958984.564	-64.783195	17.70988833	3860	cpm	soil	0.25
310896.193	1958982.155	-64.78318333	17.70986667	3900	cpm	soil	0.25
0*	0*	0*	0*	3940	cpm	soil	0.25
310897.2223	1958978.824	-64.78317333	17.70983667	3950	cpm	soil	0.25
0*	0*	0*	0*	4190	cpm	soil	0.25
310898.0766	1958975.68	-64.783165	17.70980833	4130	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site

X	Y	DEC_DEG_X	DEC_DEG_Y	RESULTS	UNITS	SURFACE	DET HEIGHT (M)
310900.1754	1958973.262	-64.783145	17.70978667	4260	cpm	soil	0.25
310900.8686	1958971.779	-64.78313833	17.70977333	4360	cpm	soil	0.25
310901.7386	1958970.295	-64.78313	17.70976	4560	cpm	soil	0.25
310902.6068	1958968.627	-64.78312167	17.709745	4670	cpm	soil	0.25
0*	0*	0*	0*	4730	cpm	soil	0.25
310903.6344	1958965.112	-64.78311167	17.70971333	4660	cpm	soil	0.25
0*	0*	0*	0*	4820	cpm	soil	0.25
0*	0*	0*	0*	5270	cpm	soil	0.25
0*	0*	0*	0*	5810	cpm	soil	0.25
310904.2892	1958959.572	-64.783105	17.70966333	6050	cpm	soil	0.25
0*	0*	0*	0*	6220	cpm	soil	0.25
310904.2892	1958959.572	-64.783105	17.70966333	6670	cpm	soil	0.25
310904.2892	1958959.572	-64.783105	17.70966333	6810	cpm	soil	0.25

Minimum =	**1790**
Maximum =	**6810**
Median =	**2910**
Arithmetic mean =	**2915**
One Sigma =	**746**
Two Sigma =	**1493**

Average Background =	**5193.75**	**cpm**		
Background +/- One Sigma =	**4597**	**to**	**5790**	**cpm**
Background +/- Two Sigma	**4000**	**to**	**6387**	**cpm**

0* - GPS data not available

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2250	cpm	soil	0.25
311084.681	1959524.95	-64.781455	17.71478667	2220	cpm	soil	0.25
311084.487	1959523.11	-64.78145667	17.71477	2220	cpm	soil	0.25
311084.995	1959520.7	-64.78145167	17.71474833	2150	cpm	soil	0.25
311086.034	1959518.48	-64.78144167	17.71472833	2200	cpm	soil	0.25
311087.428	1959516.25	-64.78142833	17.71470833	2220	cpm	soil	0.25
311088.644	1959514.03	-64.78141667	17.71468833	2090	cpm	soil	0.25
311090.052	1959513.28	-64.78140333	17.71468167	2220	cpm	soil	0.25
311091.125	1959514.56	-64.78139333	17.71469333	2080	cpm	soil	0.25
311092.726	1959515.65	-64.78137833	17.71470333	2130	cpm	soil	0.25
311094.147	1959516.37	-64.781365	17.71471	1950	cpm	soil	0.25
311094.149	1959516.56	-64.781365	17.71471167	1980	cpm	soil	0.25
311094.149	1959516.56	-64.781365	17.71471167	1870	cpm	soil	0.25
311094.149	1959516.56	-64.781365	17.71471167	1870	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
311097.347	1959518.19	-64.781335	17.71472667	1770	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
311101.256	1959520.18	-64.78129833	17.714745	1820	cpm	soil	0.25
311103.561	1959520.9	-64.78127667	17.71475167	1700	cpm	soil	0.25
311106.391	1959521.05	-64.78125	17.71475333	1900	cpm	soil	0.25
311109.047	1959521.4	-64.781225	17.71475667	2050	cpm	soil	0.25
311110.288	1959521.75	-64.78121333	17.71476	1970	cpm	soil	0.25
311114.012	1959523.01	-64.78117833	17.71477167	2020	cpm	soil	0.25
311115.614	1959524.1	-64.78116333	17.71478167	2190	cpm	soil	0.25
311117.391	1959525.01	-64.78114667	17.71479	2020	cpm	soil	0.25
311118.632	1959525.37	-64.781135	17.71479333	2220	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2190	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2030	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2000	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	1830	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	1840	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	1940	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2010	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2060	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	1870	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	2080	cpm	soil	0.25
0*	0*	0*	0*	2030	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
311139.382	1959532.18	-64.78094	17.71485667	2000	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
311152.69	1959537.22	-64.780815	17.71490333	1730	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
311157.835	1959539.01	-64.78076667	17.71492	1800	cpm	soil	0.25
311160.672	1959539.91	-64.78074	17.71492833	1790	cpm	soil	0.25
311163.158	1959540.99	-64.78071667	17.71493833	1780	cpm	soil	0.25
311164.402	1959541.72	-64.780705	17.714945	1820	cpm	soil	0.25
311168.304	1959542.97	-64.78066833	17.71495667	1880	cpm	soil	0.25
311169.73	1959544.25	-64.780655	17.71496833	1810	cpm	soil	0.25
311168.668	1959544.08	-64.780665	17.71496667	1840	cpm	soil	0.25
311166.714	1959543.17	-64.78068333	17.71495833	1760	cpm	soil	0.25
311165.652	1959543	-64.78069333	17.71495667	1610	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
0*	0*	0*	0*	1480	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
0*	0*	0*	0*	1530	cpm	soil	0.25
0*	0*	0*	0*	1530	cpm	soil	0.25
311150.215	1959537.24	-64.78083833	17.71490333	1650	cpm	soil	0.25
311147.905	1959535.97	-64.78086	17.71489167	1650	cpm	soil	0.25
311145.594	1959534.7	-64.78088167	17.71488	1760	cpm	soil	0.25
311143.287	1959533.8	-64.78090333	17.71487167	1870	cpm	soil	0.25
311141.868	1959533.26	-64.78091667	17.71486667	2060	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311135.304	1959530.93	-64.78097833	17.714845	2090	cpm	soil	0.25
311132.642	1959529.84	-64.78100333	17.714835	2240	cpm	soil	0.25
311130.158	1959528.95	-64.78102667	17.71482667	2360	cpm	soil	0.25
311128.738	1959528.41	-64.78104	17.71482167	2210	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
311123.773	1959526.79	-64.78108667	17.71480667	1940	cpm	soil	0.25
311121.824	1959526.44	-64.781105	17.71480333	1930	cpm	soil	0.25
311120.228	1959525.9	-64.78112	17.71479833	1870	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
311081.892	1959547.85	-64.78148333	17.71499333	2540	cpm	soil	0.25
311080.844	1959549.15	-64.78149333	17.715005	2430	cpm	soil	0.25
311079.27	1959551.01	-64.78150833	17.71502167	2530	cpm	soil	0.25
311078.575	1959552.31	-64.781515	17.71503333	2500	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
311075.277	1959558.8	-64.78154667	17.71509167	2360	cpm	soil	0.25
311075.305	1959561.75	-64.78154667	17.71511833	2330	cpm	soil	0.25
311075.496	1959563.22	-64.781545	17.71513167	2180	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311074.15	1959570.43	-64.78155833	17.71519667	1840	cpm	soil	0.25
0*	0*	0*	0*	1800	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
311073.803	1959571.17	-64.78156167	17.71520333	1750	cpm	soil	0.25
311072.762	1959573.21	-64.78157167	17.71522167	1630	cpm	soil	0.25
311071.548	1959575.8	-64.78158333	17.715245	1550	cpm	soil	0.25
311070.348	1959579.69	-64.781595	17.71528	1690	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
311066.901	1959589.13	-64.78162833	17.715365	1810	cpm	soil	0.25
311066.56	1959590.43	-64.78163167	17.71537667	1720	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
311069.317	1959582.84	-64.781605	17.71530833	1970	cpm	soil	0.25
311069.66	1959581.73	-64.78160167	17.71529833	1940	cpm	soil	0.25
311070.523	1959579.5	-64.78159333	17.71527833	1940	cpm	soil	0.25
311071.03	1959577.1	-64.78158833	17.71525667	1920	cpm	soil	0.25
311071.713	1959574.51	-64.78158167	17.71523333	1890	cpm	soil	0.25
311072.392	1959571.55	-64.781575	17.71520667	1800	cpm	soil	0.25
311073.075	1959568.96	-64.78156833	17.71518333	1810	cpm	soil	0.25
311073.581	1959566.38	-64.78156333	17.71516	1640	cpm	soil	0.25
311074.26	1959563.42	-64.78155667	17.71513333	1660	cpm	soil	0.25
311075.118	1959560.64	-64.78154833	17.71510833	1780	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
311078.222	1959552.31	-64.78151833	17.71503333	1690	cpm	soil	0.25
311079.788	1959549.71	-64.78150333	17.71501	1820	cpm	soil	0.25
311080.483	1959548.42	-64.78149667	17.71499833	2200	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2160	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
311083.55	1959536.21	-64.78146667	17.71488833	2250	cpm	soil	0.25
311084.06	1959533.99	-64.78146167	17.71486833	2150	cpm	soil	0.25
311085.098	1959531.59	-64.78145167	17.71484667	2100	cpm	soil	0.25
311086.312	1959529.18	-64.78144	17.714825	2020	cpm	soil	0.25
311086.645	1959526.96	-64.78143667	17.714805	1990	cpm	soil	0.25
311086.629	1959525.3	-64.78143667	17.71479	1800	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
311088.361	1959521.41	-64.78142	17.714755	1680	cpm	soil	0.25
311089.934	1959519.55	-64.781405	17.71473833	1800	cpm	soil	0.25
311090.797	1959517.33	-64.78139667	17.71471833	1860	cpm	soil	0.25
311091.312	1959515.66	-64.78139167	17.71470333	1940	cpm	soil	0.25
311091.487	1959515.48	-64.78139	17.71470167	1940	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
311091.487	1959515.48	-64.78139	17.71470167	1940	cpm	soil	0.25
311091.837	1959515.1	-64.78138667	17.71469833	1940	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
311093.064	1959513.99	-64.781375	17.71468833	1700	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
311094.379	1959503.46	-64.78136167	17.71459333	2090	cpm	soil	0.25
311095.59	1959500.68	-64.78135	17.71456833	2190	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
311098.188	1959494.94	-64.781325	17.71451667	1890	cpm	soil	0.25
311099.221	1959491.97	-64.781315	17.71449	1960	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311099.869	1959485.7	-64.78130833	17.71443333	1910	cpm	soil	0.25
311100.368	1959482.37	-64.78130333	17.71440333	1920	cpm	soil	0.25
311101.043	1959479.04	-64.78129667	17.71437333	1870	cpm	soil	0.25
311101.899	1959476.08	-64.78128833	17.71434667	1630	cpm	soil	0.25
311102.578	1959473.13	-64.78128167	17.71432	1680	cpm	soil	0.25
311103.259	1959470.35	-64.781275	17.714295	1640	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
311108.024	1959469.38	-64.78123	17.71428667	1810	cpm	soil	0.25
311108.743	1959470.67	-64.78122333	17.71429833	1790	cpm	soil	0.25
311108.596	1959473.81	-64.781225	17.71432667	1660	cpm	soil	0.25
311108.598	1959473.99	-64.781225	17.71432833	1760	cpm	soil	0.25
311108.598	1959473.99	-64.781225	17.71432833	1780	cpm	soil	0.25
311108.598	1959473.99	-64.781225	17.71432833	1820	cpm	soil	0.25
311107.91	1959476.03	-64.78123167	17.71434667	1890	cpm	soil	0.25
311106.522	1959478.81	-64.781245	17.71437167	1750	cpm	soil	0.25
311105.491	1959481.95	-64.781255	17.7144	1800	cpm	soil	0.25
311104.101	1959484.55	-64.78126833	17.71442333	1870	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311103.068	1959487.51	-64.78127833	17.71445	1840	cpm	soil	0.25
311102.21	1959490.29	-64.78128667	17.714475	1750	cpm	soil	0.25
311101.351	1959492.88	-64.781295	17.71449833	1740	cpm	soil	0.25
311100.491	1959495.47	-64.78130333	17.71452167	1700	cpm	soil	0.25
311099.807	1959497.87	-64.78131	17.71454333	1740	cpm	soil	0.25
311099.462	1959498.8	-64.78131333	17.71455167	1770	cpm	soil	0.25
311098.258	1959502.31	-64.781325	17.71458333	1810	cpm	soil	0.25
311098.284	1959505.08	-64.781325	17.71460833	1720	cpm	soil	0.25
311099.177	1959505.99	-64.78131667	17.71461667	1870	cpm	soil	0.25
311102.728	1959507.62	-64.78128333	17.71463167	1980	cpm	soil	0.25
311105.389	1959508.52	-64.78125833	17.71464	2070	cpm	soil	0.25
311106.801	1959508.32	-64.781245	17.71463833	2030	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
311110.6	1959498.69	-64.78120833	17.71455167	1780	cpm	soil	0.25
311111.121	1959497.76	-64.78120333	17.71454333	1760	cpm	soil	0.25
0*	0*	0*	0*	1630	cpm	soil	0.25
311110.346	1959490.58	-64.78121	17.71447833	1490	cpm	soil	0.25
311110.495	1959487.62	-64.78120833	17.71445167	1430	cpm	soil	0.25
311111.178	1959485.04	-64.78120167	17.71442833	1440	cpm	soil	0.25
311112.216	1959482.63	-64.78119167	17.71440667	1320	cpm	soil	0.25
0*	0*	0*	0*	1380	cpm	soil	0.25
311113.06	1959478.38	-64.78118333	17.71436833	1370	cpm	soil	0.25
0*	0*	0*	0*	1450	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25
0*	0*	0*	0*	1460	cpm	soil	0.25
0*	0*	0*	0*	1440	cpm	soil	0.25
0*	0*	0*	0*	1430	cpm	soil	0.25
0*	0*	0*	0*	1420	cpm	soil	0.25
0*	0*	0*	0*	1400	cpm	soil	0.25
311116.767	1959477.79	-64.78114833	17.71436333	1380	cpm	soil	0.25
311116.767	1959477.79	-64.78114833	17.71436333	1410	cpm	soil	0.25
0*	0*	0*	0*	1390	cpm	soil	0.25
0*	0*	0*	0*	1330	cpm	soil	0.25
311114.178	1959484.45	-64.78117333	17.71442333	1420	cpm	soil	0.25
0*	0*	0*	0*	1370	cpm	soil	0.25
0*	0*	0*	0*	1370	cpm	soil	0.25
311113.541	1959491.84	-64.78118	17.71449	1350	cpm	soil	0.25
311113.541	1959491.84	-64.78118	17.71449	1380	cpm	soil	0.25
311113.541	1959491.84	-64.78118	17.71449	1310	cpm	soil	0.25
311113.549	1959492.76	-64.78118	17.71449833	1320	cpm	soil	0.25
311113.745	1959494.79	-64.78117833	17.71451667	1410	cpm	soil	0.25
311113.588	1959496.82	-64.78118	17.714535	1300	cpm	soil	0.25
311113.597	1959497.74	-64.78118	17.71454333	1340	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2130	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
311125.096	1959517.19	-64.78107333	17.71472	2210	cpm	soil	0.25
311126.166	1959518.1	-64.78106333	17.71472833	2140	cpm	soil	0.25
311130.251	1959520.09	-64.781025	17.71474667	2040	cpm	soil	0.25
311131.67	1959520.63	-64.78101167	17.71475167	1950	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311138.95	1959523.88	-64.78094333	17.71478167	1810	cpm	soil	0.25
311141.791	1959525.15	-64.78091667	17.71479333	1840	cpm	soil	0.25
311143.212	1959525.87	-64.78090333	17.7148	1890	cpm	soil	0.25
311147.657	1959528.41	-64.78086167	17.71482333	1970	cpm	soil	0.25
311150.847	1959529.3	-64.78083167	17.71483167	2040	cpm	soil	0.25
311152.617	1959529.47	-64.780815	17.71483333	1950	cpm	soil	0.25
311154.39	1959530.01	-64.78079833	17.71483833	2010	cpm	soil	0.25
311159.174	1959531.07	-64.78075333	17.71484833	1960	cpm	soil	0.25
311160.238	1959531.43	-64.78074333	17.71485167	1910	cpm	soil	0.25
311160.77	1959531.61	-64.78073833	17.71485333	1870	cpm	soil	0.25
311162.897	1959532.14	-64.78071833	17.71485833	1870	cpm	soil	0.25
311165.916	1959533.59	-64.78069	17.71487167	1840	cpm	soil	0.25
311170.177	1959535.39	-64.78065	17.71488833	1780	cpm	soil	0.25
311170.01	1959536.5	-64.78065167	17.71489833	1750	cpm	soil	0.25
311167.886	1959536.15	-64.78067167	17.714895	1730	cpm	soil	0.25
311166.468	1959535.8	-64.780685	17.71489167	1760	cpm	soil	0.25
311162.207	1959533.99	-64.780725	17.714875	1810	cpm	soil	0.25
311159.013	1959532.73	-64.780755	17.71486333	1890	cpm	soil	0.25
311157.415	1959532.01	-64.78077	17.71485667	1870	cpm	soil	0.25
311152.799	1959530.02	-64.78081333	17.71483833	2020	cpm	soil	0.25
311151.201	1959529.3	-64.78082833	17.71483167	2090	cpm	soil	0.25
311146.589	1959527.68	-64.78087167	17.71481667	1900	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
311138.43	1959524.99	-64.78094833	17.71479167	1880	cpm	soil	0.25
311135.768	1959523.91	-64.78097333	17.71478167	1830	cpm	soil	0.25
311132.929	1959522.83	-64.781	17.71477167	1770	cpm	soil	0.25
311130.088	1959521.57	-64.78102667	17.71476	1790	cpm	soil	0.25
311127.247	1959520.3	-64.78105333	17.71474833	1790	cpm	soil	0.25
311124.583	1959519.04	-64.78107833	17.71473667	1720	cpm	soil	0.25
311122.099	1959518.14	-64.78110167	17.71472833	1680	cpm	soil	0.25
311119.792	1959517.24	-64.78112333	17.71472	1690	cpm	soil	0.25
311118.548	1959516.51	-64.781135	17.71471333	1650	cpm	soil	0.25
311116.766	1959515.05	-64.78115167	17.7147	1720	cpm	soil	0.25
311114.449	1959513.04	-64.78117333	17.71468167	1660	cpm	soil	0.25
311111.783	1959511.59	-64.78119833	17.71466833	1700	cpm	soil	0.25
311108.942	1959510.33	-64.781225	17.71465667	1790	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311103.264	1959508.17	-64.78127833	17.71463667	1810	cpm	soil	0.25
311100.778	1959507.09	-64.78130167	17.71462667	1880	cpm	soil	0.25
311098.291	1959505.82	-64.781325	17.714615	1720	cpm	soil	0.25
311097.221	1959504.91	-64.781335	17.71460667	1830	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311091.711	1959501.82	-64.78138667	17.71457833	2250	cpm	soil	0.25
311090.801	1959499.06	-64.781395	17.71455333	2140	cpm	soil	0.25
311090.066	1959496.12	-64.78140167	17.71452667	2320	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311090.338	1959487.45	-64.78139833	17.71444833	2130	cpm	soil	0.25
0*	0*	0*	0*	2380	cpm	soil	0.25
311092.051	1959481.71	-64.78138167	17.71439667	2640	cpm	soil	0.25
0*	0*	0*	0*	2580	cpm	soil	0.25
0*	0*	0*	0*	2350	cpm	soil	0.25
311094.978	1959473.38	-64.78135333	17.71432167	2180	cpm	soil	0.25
311095.836	1959470.61	-64.781345	17.71429667	2030	cpm	soil	0.25
311096.517	1959467.83	-64.78133833	17.71427167	1990	cpm	soil	0.25
311097.033	1959466.35	-64.78133333	17.71425833	2040	cpm	soil	0.25
0*	0*	0*	0*	2180	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
311098.01	1959457.49	-64.78132333	17.71417833	2350	cpm	soil	0.25
311097.807	1959454.72	-64.781325	17.71415333	2370	cpm	soil	0.25
311097.426	1959451.77	-64.78132833	17.71412667	2200	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311095.756	1959443.49	-64.78134333	17.71405167	2010	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
311093.588	1959438.53	-64.78136333	17.71400667	1870	cpm	soil	0.25
311092.327	1959436.14	-64.781375	17.713985	1800	cpm	soil	0.25
311091.783	1959434.67	-64.78138	17.71397167	1960	cpm	soil	0.25
311089.275	1959431.19	-64.78140333	17.71394	2000	cpm	soil	0.25
311088.382	1959430.28	-64.78141167	17.71393167	2040	cpm	soil	0.25
311086.229	1959426.98	-64.78143167	17.71390167	1940	cpm	soil	0.25
311084.44	1959424.78	-64.78144833	17.71388167	2040	cpm	soil	0.25
311082.126	1959423.14	-64.78147	17.71386667	2030	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
311076.592	1959417.47	-64.78152167	17.713815	2300	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
311074.983	1959415.65	-64.78153667	17.71379833	2280	cpm	soil	0.25
311074.983	1959415.65	-64.78153667	17.71379833	2270	cpm	soil	0.25
311074.983	1959415.65	-64.78153667	17.71379833	2090	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2060	cpm	soil	0.25
311074.983	1959415.65	-64.78153667	17.71379833	2170	cpm	soil	0.25
311074.092	1959414.92	-64.781545	17.71379167	2110	cpm	soil	0.25
311072.843	1959413.64	-64.78155667	17.71378	2240	cpm	soil	0.25
311071.953	1959413.09	-64.781565	17.713775	2260	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311068.386	1959409.8	-64.78159833	17.713745	2250	cpm	soil	0.25
311068.386	1959409.8	-64.78159833	17.713745	2110	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
311062.494	1959403.77	-64.78165333	17.71369	1960	cpm	soil	0.25
311059.82	1959401.4	-64.78167833	17.71366833	1920	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
0*	0*	0*	0*	2030	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
311055.358	1959397.01	-64.78172	17.71362833	2070	cpm	soil	0.25
0*	0*	0*	0*	2080	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311061.238	1959401.75	-64.781665	17.71367167	1950	cpm	soil	0.25
311062.312	1959403.22	-64.781655	17.713685	1950	cpm	soil	0.25
311062.846	1959403.58	-64.78165	17.71368833	2090	cpm	soil	0.25
311065.162	1959405.41	-64.78162833	17.713705	2110	cpm	soil	0.25
311066.769	1959407.05	-64.78161333	17.71372	2130	cpm	soil	0.25
311068.02	1959408.52	-64.78160167	17.71373333	2190	cpm	soil	0.25
311069.977	1959409.79	-64.78158333	17.713745	2300	cpm	soil	0.25
311070.693	1959410.7	-64.78157667	17.71375333	2340	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
311074.623	1959414.91	-64.78154	17.71379167	2330	cpm	soil	0.25
311076.585	1959416.74	-64.78152167	17.71380833	2300	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311084.262	1959424.6	-64.78145	17.71388	1950	cpm	soil	0.25
311086.403	1959426.61	-64.78143	17.71389833	1840	cpm	soil	0.25
311088.368	1959428.8	-64.78141167	17.71391833	1830	cpm	soil	0.25
311089.261	1959429.71	-64.78140333	17.71392667	1800	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311090.878	1959432.47	-64.78138833	17.71395167	1830	cpm	soil	0.25
311090.878	1959432.47	-64.78138833	17.71395167	1880	cpm	soil	0.25
311091.242	1959433.57	-64.781385	17.71396167	1810	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
311092	1959438.91	-64.78137833	17.71401	2030	cpm	soil	0.25
311092.732	1959441.49	-64.78137167	17.71403333	1940	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311094.34	1959443.32	-64.78135667	17.71405	1920	cpm	soil	0.25
311095.054	1959444.05	-64.78135	17.71405667	1950	cpm	soil	0.25
311097.037	1959448.09	-64.78133167	17.71409333	1860	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
311099.376	1959452.31	-64.78131	17.71413167	1930	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
311099.757	1959455.26	-64.78130667	17.71415833	2090	cpm	soil	0.25
311100.128	1959457.1	-64.78130333	17.714175	2180	cpm	soil	0.25
311100.492	1959458.2	-64.7813	17.714185	2220	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311100.382	1959465.21	-64.78130167	17.71424833	2330	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311098.658	1959469.84	-64.78131833	17.71429	2250	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
311096.265	1959478.54	-64.78134167	17.71436833	2090	cpm	soil	0.25
311095.925	1959480.01	-64.781345	17.71438167	1950	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311095.582	1959481.12	-64.78134833	17.71439167	1960	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
311094.395	1959486.49	-64.78136	17.71444	1960	cpm	soil	0.25
311093.712	1959489.07	-64.78136667	17.71446333	1910	cpm	soil	0.25
311093.192	1959490.19	-64.78137167	17.71447333	2000	cpm	soil	0.25
311091.279	1959493.52	-64.78139	17.71450333	2120	cpm	soil	0.25
311089.173	1959495.21	-64.78141	17.71451833	2110	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311078.958	1959499.36	-64.78150667	17.714555	2170	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
311071.344	1959498.14	-64.78157833	17.71454333	1970	cpm	soil	0.25
311070.278	1959497.6	-64.78158833	17.71453833	1970	cpm	soil	0.25
311066.903	1959495.97	-64.78162	17.71452333	2050	cpm	soil	0.25
311065.118	1959494.14	-64.78163667	17.71450667	2210	cpm	soil	0.25
311062.981	1959492.5	-64.78165667	17.71449167	2260	cpm	soil	0.25
311060.492	1959491.05	-64.78168	17.71447833	2480	cpm	soil	0.25
311057.829	1959489.97	-64.781705	17.71446833	2470	cpm	soil	0.25
311055.699	1959489.07	-64.781725	17.71446	2680	cpm	soil	0.25
0*	0*	0*	0*	2780	cpm	soil	0.25
311051.264	1959487.45	-64.78176667	17.714445	2760	cpm	soil	0.25
311048.957	1959486.55	-64.78178833	17.71443667	2610	cpm	soil	0.25
311046.651	1959485.83	-64.78181	17.71443	2430	cpm	soil	0.25
0*	0*	0*	0*	2460	cpm	soil	0.25
311042.214	1959484.03	-64.78185167	17.71441333	2600	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311037.6	1959482.23	-64.781895	17.71439667	2420	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
311033.159	1959480.05	-64.78193667	17.71437667	2180	cpm	soil	0.25
311032.094	1959479.51	-64.78194667	17.71437167	2130	cpm	soil	0.25
311029.429	1959478.25	-64.78197167	17.71436	2200	cpm	soil	0.25
311027.299	1959477.34	-64.78199167	17.71435167	2080	cpm	soil	0.25
311024.992	1959476.44	-64.78201333	17.71434333	2070	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
311015.052	1959472.29	-64.78210667	17.714305	2260	cpm	soil	0.25
311012.566	1959471.21	-64.78213	17.714295	2370	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
311005.465	1959468.14	-64.78219667	17.71426667	2310	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
310998.364	1959465.07	-64.78226333	17.71423833	2130	cpm	soil	0.25
310995.88	1959464.17	-64.78228667	17.71423	2130	cpm	soil	0.25
310993.571	1959463.09	-64.78230833	17.71422	2230	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310988.423	1959460.92	-64.78235667	17.7142	2170	cpm	soil	0.25
310987.181	1959460.38	-64.78236833	17.714195	2300	cpm	soil	0.25
310985.218	1959458.56	-64.78238667	17.71417833	2350	cpm	soil	0.25
310985.033	1959457.64	-64.78238833	17.71417	2380	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
310984.452	1959452.29	-64.78239333	17.71412167	2320	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
310981.933	1959447.7	-64.78241667	17.71408	2170	cpm	soil	0.25
310980.498	1959445.5	-64.78243	17.71406	1980	cpm	soil	0.25
310979.766	1959442.93	-64.78243667	17.71403667	1930	cpm	soil	0.25
310979.211	1959440.35	-64.78244167	17.71401333	1940	cpm	soil	0.25
310979.008	1959437.58	-64.78244333	17.71398833	2110	cpm	soil	0.25
310978.986	1959435.19	-64.78244333	17.71396667	2060	cpm	soil	0.25
310978.8	1959434.27	-64.782445	17.71395833	2320	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
310979.1	1959428.54	-64.78244167	17.71390667	2270	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
310979.418	1959424.85	-64.78243833	17.71387333	2300	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
310980.413	1959417.83	-64.78242833	17.71381	2140	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
310982.844	1959413.2	-64.782405	17.71376833	2460	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2450	cpm	soil	0.25
310980.315	1959407.5	-64.78242833	17.71371667	2470	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
310971.325	1959410.35	-64.78251333	17.71374167	2600	cpm	soil	0.25
310969.716	1959408.52	-64.78252833	17.713725	2630	cpm	soil	0.25
310968.81	1959406.13	-64.78253667	17.71370333	2620	cpm	soil	0.25
310968.607	1959403.37	-64.78253833	17.71367833	2590	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
310967.675	1959398.4	-64.78254667	17.71363333	2780	cpm	soil	0.25
310966.067	1959396.57	-64.78256167	17.71361667	2570	cpm	soil	0.25
310964.987	1959394.55	-64.78257167	17.71359833	2580	cpm	soil	0.25
310964.446	1959393.45	-64.78257667	17.71358833	2590	cpm	soil	0.25
310963.349	1959389.58	-64.78258667	17.71355333	2460	cpm	soil	0.25
310962.085	1959386.83	-64.78259833	17.71352833	2720	cpm	soil	0.25
310960.473	1959384.63	-64.78261333	17.71350833	2870	cpm	soil	0.25
310959.757	1959383.71	-64.78262	17.7135	3170	cpm	soil	0.25
0*	0*	0*	0*	3180	cpm	soil	0.25
0*	0*	0*	0*	2970	cpm	soil	0.25
310956.505	1959376.37	-64.78265	17.71343333	2970	cpm	soil	0.25
310956.482	1959373.97	-64.78265	17.71341167	3120	cpm	soil	0.25
310956.279	1959371.2	-64.78265167	17.71338667	3110	cpm	soil	0.25
310955.546	1959368.44	-64.78265833	17.71336167	2840	cpm	soil	0.25
310955.357	1959367.15	-64.78266	17.71335	2650	cpm	soil	0.25
310954.616	1959363.65	-64.78266667	17.71331833	2480	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
310955.999	1959360.32	-64.78265333	17.71328833	2750	cpm	soil	0.25
310957.946	1959360.49	-64.782635	17.71329	2560	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
310959.938	1959365.45	-64.78261667	17.713335	2370	cpm	soil	0.25
0*	0*	0*	0*	2380	cpm	soil	0.25
310962.432	1959367.45	-64.78259333	17.71335333	2600	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2810	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2890	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2990	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2880	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2780	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2770	cpm	soil	0.25
310963.666	1959367.07	-64.78258167	17.71335	2810	cpm	soil	0.25
310967.013	1959365.75	-64.78255	17.71333833	2770	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
310969.453	1959362.04	-64.78252667	17.713305	2650	cpm	soil	0.25
310967.499	1959361.13	-64.782545	17.71329667	2640	cpm	soil	0.25
310966.083	1959360.96	-64.78255833	17.713295	2680	cpm	soil	0.25
310962.728	1959361.36	-64.78259	17.71329833	2760	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310960.949	1959360.27	-64.78260667	17.71328833	2560	cpm	soil	0.25
310960.06	1959359.73	-64.782615	17.71328333	2750	cpm	soil	0.25
310960.06	1959359.73	-64.782615	17.71328333	2910	cpm	soil	0.25
310960.06	1959359.73	-64.782615	17.71328333	2970	cpm	soil	0.25
310960.577	1959358.25	-64.78261	17.71327	2600	cpm	soil	0.25
310960.391	1959357.33	-64.78261167	17.71326167	2560	cpm	soil	0.25
310959.313	1959355.49	-64.78262167	17.713245	2330	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310961.907	1959349.38	-64.78259667	17.71319	2180	cpm	soil	0.25
310964.202	1959348.99	-64.782575	17.71318667	2030	cpm	soil	0.25
310965.979	1959349.9	-64.78255833	17.713195	2060	cpm	soil	0.25
310966.869	1959350.63	-64.78255	17.71320167	2040	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
310967.965	1959354.3	-64.78254	17.713235	2160	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
310964.625	1959356.37	-64.78257167	17.71325333	2100	cpm	soil	0.25
310961.611	1959355.47	-64.7826	17.713245	2000	cpm	soil	0.25
310960.013	1959354.75	-64.782615	17.71323833	2010	cpm	soil	0.25
310959.465	1959352.91	-64.78262	17.71322167	1850	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
310959.966	1959349.77	-64.782615	17.71319333	1860	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310959.961	1959349.22	-64.782615	17.71318833	2100	cpm	soil	0.25
310959.961	1959349.22	-64.782615	17.71318833	2020	cpm	soil	0.25
310959.604	1959348.85	-64.78261833	17.713185	2300	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
310962.942	1959346.6	-64.78258667	17.713165	2640	cpm	soil	0.25
310964.876	1959345.48	-64.78256833	17.713155	2680	cpm	soil	0.25
310965.224	1959344.92	-64.782565	17.71315	2660	cpm	soil	0.25
310965.557	1959342.71	-64.78256167	17.71313	2670	cpm	soil	0.25
310964.657	1959341.05	-64.78257	17.713115	2710	cpm	soil	0.25
310963.577	1959339.03	-64.78258	17.71309667	2670	cpm	soil	0.25
310962.32	1959337.02	-64.78259167	17.71307833	2630	cpm	soil	0.25
310961.416	1959334.81	-64.7826	17.71305833	2600	cpm	soil	0.25
310960.334	1959332.61	-64.78261	17.71303833	2530	cpm	soil	0.25
310958.899	1959330.41	-64.78262333	17.71301833	2750	cpm	soil	0.25
310957.638	1959328.02	-64.782635	17.71299667	2820	cpm	soil	0.25
310956.203	1959325.82	-64.78264833	17.71297667	2740	cpm	soil	0.25
310955.309	1959324.72	-64.78265667	17.71296667	2720	cpm	soil	0.25
310953.156	1959321.42	-64.78267667	17.71293667	2750	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
310951.356	1959318.12	-64.78269333	17.71290667	2660	cpm	soil	0.25
310949.594	1959318.69	-64.78271	17.71291167	2890	cpm	soil	0.25
0*	0*	0*	0*	2840	cpm	soil	0.25
310947.322	1959321.48	-64.78273167	17.71293667	2690	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310951.437	1959326.61	-64.78269333	17.71298333	2790	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
310954.663	1959331.19	-64.78266333	17.713025	2810	cpm	soil	0.25
310955.559	1959332.47	-64.782655	17.71303667	2620	cpm	soil	0.25
310957.349	1959334.85	-64.78263833	17.71305833	2620	cpm	soil	0.25
310958.435	1959337.42	-64.78262833	17.71308167	2580	cpm	soil	0.25
310958.813	1959340	-64.782625	17.713105	2610	cpm	soil	0.25
310958.114	1959340.93	-64.78263167	17.71311333	2450	cpm	soil	0.25
310955.285	1959340.96	-64.78265833	17.71311333	2590	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
310951.345	1959335.65	-64.782695	17.713065	2270	cpm	soil	0.25
310950.626	1959334.36	-64.78270167	17.71305333	2430	cpm	soil	0.25
310949.55	1959332.71	-64.78271167	17.71303833	2450	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
310949.189	1959331.98	-64.782715	17.71303167	2610	cpm	soil	0.25
310948.113	1959330.33	-64.782725	17.71301667	2790	cpm	soil	0.25
310947.209	1959328.31	-64.78273333	17.71299833	2750	cpm	soil	0.25
310947.026	1959327.57	-64.782735	17.71299167	2830	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
310944.32	1959321.88	-64.78276	17.71294	2660	cpm	soil	0.25
310943.602	1959320.78	-64.78276667	17.71293	2770	cpm	soil	0.25
310940.565	1959317.48	-64.782795	17.7129	2660	cpm	soil	0.25
310938.953	1959315.29	-64.78281	17.71288	2570	cpm	soil	0.25
310938.235	1959314.19	-64.78281667	17.71287	2530	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
310934.313	1959310.72	-64.78285333	17.71283833	2290	cpm	soil	0.25
310932.884	1959309.26	-64.78286667	17.712825	2060	cpm	soil	0.25
310931.631	1959307.61	-64.78287833	17.71281	2130	cpm	soil	0.25
310930.738	1959306.69	-64.78288667	17.71280167	2120	cpm	soil	0.25
310929.132	1959305.05	-64.78290167	17.71278667	2260	cpm	soil	0.25
310925.545	1959299.73	-64.782935	17.71273833	2470	cpm	soil	0.25
310926.233	1959297.7	-64.78292833	17.71272	2580	cpm	soil	0.25
0*	0*	0*	0*	2670	cpm	soil	0.25
310929.779	1959298.77	-64.782895	17.71273	2520	cpm	soil	0.25
310930.674	1959299.87	-64.78288667	17.71274	2400	cpm	soil	0.25
310932.111	1959302.25	-64.78287333	17.71276167	2710	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2530	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2540	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2570	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2520	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2490	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2490	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2450	cpm	soil	0.25
310933.009	1959303.72	-64.782865	17.712775	2500	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310934.805	1959306.65	-64.78284833	17.71280167	2600	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
0*	0*	0*	0*	2510	cpm	soil	0.25
310938.57	1959312.15	-64.78281333	17.71285167	2690	cpm	soil	0.25
310940.899	1959315.45	-64.78279167	17.71288167	2840	cpm	soil	0.25
310942.863	1959317.46	-64.78277333	17.7129	2780	cpm	soil	0.25
310943.928	1959317.82	-64.78276333	17.71290333	2770	cpm	soil	0.25
310946.737	1959315.77	-64.78273667	17.712885	2680	cpm	soil	0.25
310947.435	1959314.84	-64.78273	17.71287667	2430	cpm	soil	0.25
0*	0*	0*	0*	2560	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
310955.272	1959320.85	-64.78265667	17.71293167	2360	cpm	soil	0.25
310955.993	1959322.32	-64.78265	17.712945	2620	cpm	soil	0.25
310957.787	1959325.07	-64.78263333	17.71297	2610	cpm	soil	0.25
310960.299	1959328.92	-64.78261	17.713005	2550	cpm	soil	0.25
310961.736	1959331.3	-64.78259667	17.71302667	2820	cpm	soil	0.25
310963.35	1959333.69	-64.78258167	17.71304833	2660	cpm	soil	0.25
310964.964	1959336.07	-64.78256667	17.71307	2520	cpm	soil	0.25
310966.397	1959338.09	-64.78255333	17.71308833	2850	cpm	soil	0.25
310967.113	1959339	-64.78254667	17.71309667	2810	cpm	soil	0.25
310968.888	1959339.72	-64.78253	17.71310333	2830	cpm	soil	0.25
310970.292	1959338.6	-64.78251667	17.71309333	2700	cpm	soil	0.25
310972.408	1959338.03	-64.78249667	17.71308833	3010	cpm	soil	0.25
310975.399	1959336.52	-64.78246833	17.713075	2910	cpm	soil	0.25
310977.159	1959335.59	-64.78245167	17.71306667	3110	cpm	soil	0.25
310978.563	1959334.47	-64.78243833	17.71305667	3130	cpm	soil	0.25
310980.674	1959333.34	-64.78241833	17.71304667	2890	cpm	soil	0.25
310982.251	1959331.85	-64.78240333	17.71303333	3120	cpm	soil	0.25
310984.185	1959330.72	-64.782385	17.71302333	2730	cpm	soil	0.25
0*	0*	0*	0*	2780	cpm	soil	0.25
310988.582	1959328.28	-64.78234333	17.71300167	2600	cpm	soil	0.25
310991.225	1959327.34	-64.78231833	17.71299333	2570	cpm	soil	0.25
0*	0*	0*	0*	2890	cpm	soil	0.25
310996.686	1959325.25	-64.78226667	17.712975	2660	cpm	soil	0.25
310999.155	1959324.49	-64.78224333	17.71296833	2650	cpm	soil	0.25
0*	0*	0*	0*	2450	cpm	soil	0.25
311001.943	1959320.22	-64.78221667	17.71293	2470	cpm	soil	0.25
311003.884	1959319.84	-64.78219833	17.71292667	2420	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
311007.46	1959324.05	-64.782165	17.712965	2420	cpm	soil	0.25
311009.078	1959326.8	-64.78215	17.71299	2550	cpm	soil	0.25
311009.799	1959328.27	-64.78214333	17.71300333	2380	cpm	soil	0.25
311010.534	1959331.21	-64.78213667	17.71303	2430	cpm	soil	0.25
311010.017	1959332.69	-64.78214167	17.71304333	2760	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
311006.993	1959330.69	-64.78217	17.713025	2690	cpm	soil	0.25
311006.438	1959328.11	-64.782175	17.71300167	2510	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311005.881	1959325.35	-64.78218	17.71297667	2530	cpm	soil	0.25
311005.146	1959322.41	-64.78218667	17.71295	2570	cpm	soil	0.25
311004.602	1959320.94	-64.78219167	17.71293667	2530	cpm	soil	0.25
311001.899	1959315.61	-64.78221667	17.71288833	2590	cpm	soil	0.25
311001.182	1959314.51	-64.78222333	17.71287833	2600	cpm	soil	0.25
311000.112	1959313.6	-64.78223333	17.71287	2440	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
310994.94	1959308.85	-64.78228167	17.71282667	2240	cpm	soil	0.25
310993.154	1959307.02	-64.78229833	17.71281	2330	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
310989.23	1959303.37	-64.782335	17.71277667	2580	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
310986.36	1959298.97	-64.78236167	17.71273667	2580	cpm	soil	0.25
310985.453	1959296.58	-64.78237	17.712715	2880	cpm	soil	0.25
0*	0*	0*	0*	2970	cpm	soil	0.25
310983.463	1959291.8	-64.78238833	17.71267167	3050	cpm	soil	0.25
310982.563	1959290.15	-64.78239667	17.71265667	3040	cpm	soil	0.25
310982.203	1959289.42	-64.7824	17.71265	2870	cpm	soil	0.25
310980.764	1959286.85	-64.78241333	17.71262667	2910	cpm	soil	0.25
310978.956	1959282.62	-64.78243	17.71258833	2910	cpm	soil	0.25
310977.879	1959280.97	-64.78244	17.71257333	2840	cpm	soil	0.25
310976.449	1959279.33	-64.78245333	17.71255833	2900	cpm	soil	0.25
0*	0*	0*	0*	2840	cpm	soil	0.25
0*	0*	0*	0*	2800	cpm	soil	0.25
310972.345	1959275.31	-64.78249167	17.71252167	2880	cpm	soil	0.25
0*	0*	0*	0*	2820	cpm	soil	0.25
310969.141	1959273.12	-64.78252167	17.71250167	2840	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
310968.205	1959267.6	-64.78253	17.71245167	2640	cpm	soil	0.25
0*	0*	0*	0*	2680	cpm	soil	0.25
310965.333	1959263.01	-64.78255667	17.71241	2730	cpm	soil	0.25
0*	0*	0*	0*	2850	cpm	soil	0.25
310962.285	1959258.61	-64.782585	17.71237	2850	cpm	soil	0.25
310960.671	1959256.23	-64.7826	17.71234833	2590	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
0*	0*	0*	0*	2720	cpm	soil	0.25
310954.575	1959247.25	-64.78265667	17.71226667	2650	cpm	soil	0.25
310953.322	1959245.6	-64.78266833	17.71225167	2720	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
310951.701	1959242.48	-64.78268333	17.71222333	2590	cpm	soil	0.25
310951.493	1959239.16	-64.782685	17.71219333	2620	cpm	soil	0.25
310950.943	1959237.14	-64.78269	17.712175	2590	cpm	soil	0.25
310950.22	1959235.48	-64.78269667	17.71216	2770	cpm	soil	0.25
0*	0*	0*	0*	2950	cpm	soil	0.25
310949.145	1959234.02	-64.78270667	17.71214667	2960	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310948.069	1959232.37	-64.78271667	17.71213167	3070	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
310945.921	1959229.62	-64.78273667	17.71210667	3290	cpm	soil	0.25
0*	0*	0*	0*	3330	cpm	soil	0.25
310944.297	1959226.13	-64.78275167	17.712075	3100	cpm	soil	0.25
310943.749	1959224.29	-64.78275667	17.71205833	2720	cpm	soil	0.25
310942.674	1959222.83	-64.78276667	17.712045	2710	cpm	soil	0.25
0*	0*	0*	0*	2760	cpm	soil	0.25
0*	0*	0*	0*	2590	cpm	soil	0.25
310939.984	1959218.79	-64.78279167	17.71200833	2530	cpm	soil	0.25
310938.545	1959216.22	-64.782805	17.711985	2410	cpm	soil	0.25
310937.819	1959214.2	-64.78281167	17.71196667	2560	cpm	soil	0.25
310936.919	1959212.55	-64.78282	17.71195167	2400	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
310934.236	1959209.26	-64.782845	17.71192167	2770	cpm	soil	0.25
310934.236	1959209.26	-64.782845	17.71192167	2600	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
310932.079	1959205.59	-64.782865	17.71188833	2620	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
310928.848	1959200.45	-64.782895	17.71184167	2510	cpm	soil	0.25
310928.132	1959199.54	-64.78290167	17.71183333	2420	cpm	soil	0.25
310926.513	1959196.6	-64.78291667	17.71180667	2700	cpm	soil	0.25
0*	0*	0*	0*	2720	cpm	soil	0.25
0*	0*	0*	0*	2900	cpm	soil	0.25
310922.571	1959191.1	-64.78295333	17.71175667	2640	cpm	soil	0.25
310922.034	1959190.37	-64.78295833	17.71175	2630	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
310920.075	1959188.91	-64.78297667	17.71173667	2460	cpm	soil	0.25
310918.469	1959187.27	-64.78299167	17.71172167	2650	cpm	soil	0.25
310916.865	1959185.99	-64.78300667	17.71171	2580	cpm	soil	0.25
310916.151	1959185.26	-64.78301333	17.71170333	2620	cpm	soil	0.25
310914.182	1959182.7	-64.78303167	17.71168	2880	cpm	soil	0.25
310913.818	1959181.59	-64.783035	17.71167	2920	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
310912.178	1959176.44	-64.78305	17.71162333	2610	cpm	soil	0.25
310911.817	1959175.71	-64.78305333	17.71161667	2600	cpm	soil	0.25
310910.025	1959173.14	-64.78307	17.71159333	2590	cpm	soil	0.25
0*	0*	0*	0*	2650	cpm	soil	0.25
310908.232	1959170.58	-64.78308667	17.71157	2700	cpm	soil	0.25
310907.161	1959169.48	-64.78309667	17.71156	2740	cpm	soil	0.25
310905.735	1959168.2	-64.78311	17.71154833	2740	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310901.789	1959162.34	-64.78314667	17.711495	2640	cpm	soil	0.25
310900.536	1959160.69	-64.78315833	17.71148	2920	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
310898.036	1959158.13	-64.78318167	17.71145667	2870	cpm	soil	0.25
310895.712	1959155.38	-64.78320333	17.71143167	2770	cpm	soil	0.25
0*	0*	0*	0*	2770	cpm	soil	0.25
0*	0*	0*	0*	2800	cpm	soil	0.25
310890.357	1959150.08	-64.78325333	17.71138333	2770	cpm	soil	0.25
0*	0*	0*	0*	2810	cpm	soil	0.25
310888.385	1959147.15	-64.78327167	17.71135667	2990	cpm	soil	0.25
0*	0*	0*	0*	2920	cpm	soil	0.25
310885.162	1959142.94	-64.78330167	17.71131833	2730	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2590	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2410	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2480	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2590	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2640	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2570	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2630	cpm	soil	0.25
0*	0*	0*	0*	2770	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2730	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2790	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2750	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2630	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2580	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2750	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2690	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
310880.515	1959137.63	-64.783345	17.71127	2910	cpm	soil	0.25
0*	0*	0*	0*	2860	cpm	soil	0.25
310876.757	1959132.87	-64.78338	17.71122667	2640	cpm	soil	0.25
310875.147	1959130.86	-64.783395	17.71120833	2710	cpm	soil	0.25
310873.886	1959128.47	-64.78340667	17.71118667	2730	cpm	soil	0.25
310873.345	1959127.37	-64.78341167	17.71117667	2970	cpm	soil	0.25
0*	0*	0*	0*	2730	cpm	soil	0.25
310870.823	1959122.41	-64.783435	17.71113167	2620	cpm	soil	0.25
310870.799	1959119.83	-64.783435	17.71110833	2520	cpm	soil	0.25
310870.596	1959117.07	-64.78343667	17.71108333	2660	cpm	soil	0.25
310870.746	1959114.3	-64.783435	17.71105833	2720	cpm	soil	0.25
310869.313	1959112.28	-64.78344833	17.71104	2510	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
310865.969	1959113.97	-64.78348	17.711055	2850	cpm	soil	0.25
310865.803	1959115.08	-64.78348167	17.711065	2800	cpm	soil	0.25
310864.777	1959118.78	-64.78349167	17.71109833	3310	cpm	soil	0.25
310863.741	1959121.37	-64.78350167	17.71112167	3200	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310862.524	1959123.6	-64.78351333	17.71114167	2900	cpm	soil	0.25
0*	0*	0*	0*	2860	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
310862.941	1959130.24	-64.78351	17.71120167	2820	cpm	soil	0.25
310864.373	1959132.07	-64.78349667	17.71121833	2780	cpm	soil	0.25
310865.444	1959133.16	-64.78348667	17.71122833	2750	cpm	soil	0.25
0*	0*	0*	0*	2730	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
0*	0*	0*	0*	2590	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
310870.611	1959137.36	-64.78343833	17.71126667	2640	cpm	soil	0.25
310872.747	1959138.81	-64.78341833	17.71128	2730	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
310876.139	1959142.29	-64.78338667	17.71131167	2700	cpm	soil	0.25
310878.274	1959143.74	-64.78336667	17.711325	2850	cpm	soil	0.25
310880.408	1959145.01	-64.78334667	17.71133667	2830	cpm	soil	0.25
0*	0*	0*	0*	2810	cpm	soil	0.25
0*	0*	0*	0*	2560	cpm	soil	0.25
310886.097	1959148.28	-64.78329333	17.71136667	2580	cpm	soil	0.25
310887.531	1959150.3	-64.78328	17.711385	2700	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
0*	0*	0*	0*	2760	cpm	soil	0.25
310893.631	1959159.65	-64.78322333	17.71147	2680	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
310896.144	1959163.68	-64.7832	17.71150667	2790	cpm	soil	0.25
310894.919	1959164.98	-64.78321167	17.71151833	2850	cpm	soil	0.25
310893.315	1959163.71	-64.78322667	17.71150667	3080	cpm	soil	0.25
310891.885	1959162.06	-64.78324	17.71149167	3020	cpm	soil	0.25
310889.746	1959160.24	-64.78326	17.711475	3320	cpm	soil	0.25
0*	0*	0*	0*	3440	cpm	soil	0.25
310886.895	1959157.87	-64.78328667	17.71145333	3380	cpm	soil	0.25
0*	0*	0*	0*	3230	cpm	soil	0.25
310883.49	1959153.1	-64.78331833	17.71141	2990	cpm	soil	0.25
310881.884	1959151.46	-64.78333333	17.711395	2680	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
310879.543	1959147.05	-64.783355	17.711355	2470	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
310876.158	1959144.32	-64.78338667	17.71133	2730	cpm	soil	0.25
310873.317	1959143.05	-64.78341333	17.71131833	2650	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
310868.353	1959141.62	-64.78346	17.711305	2380	cpm	soil	0.25
310864.978	1959139.99	-64.78349167	17.71129	2510	cpm	soil	0.25
310862.671	1959139.09	-64.78351333	17.71128167	2470	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
0*	0*	0*	0*	2430	cpm	soil	0.25
310855.606	1959139.9	-64.78358	17.71128833	2760	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2710	cpm	soil	0.25
310852.603	1959140.11	-64.78360833	17.71129	2800	cpm	soil	0.25
310850.84	1959140.68	-64.783625	17.711295	2570	cpm	soil	0.25
0*	0*	0*	0*	2550	cpm	soil	0.25
310846.961	1959141.83	-64.78366167	17.711305	2370	cpm	soil	0.25
310845.38	1959142.95	-64.78367667	17.711315	2510	cpm	soil	0.25
0*	0*	0*	0*	2670	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
310841.888	1959147.59	-64.78371	17.71135667	2600	cpm	soil	0.25
310840.493	1959149.63	-64.78372333	17.711375	2640	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
0*	0*	0*	0*	2940	cpm	soil	0.25
0*	0*	0*	0*	3050	cpm	soil	0.25
0*	0*	0*	0*	2810	cpm	soil	0.25
310835.833	1959161.67	-64.78376833	17.71148333	2960	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
310834.823	1959167.03	-64.78377833	17.71153167	2700	cpm	soil	0.25
310834.48	1959168.14	-64.78378167	17.71154167	2550	cpm	soil	0.25
0*	0*	0*	0*	2900	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
0*	0*	0*	0*	2820	cpm	soil	0.25
0*	0*	0*	0*	2880	cpm	soil	0.25
310831.417	1959180.71	-64.78381167	17.711655	2880	cpm	soil	0.25
310830.718	1959181.64	-64.78381833	17.71166333	2770	cpm	soil	0.25
310829.334	1959184.79	-64.78383167	17.71169167	2570	cpm	soil	0.25
310829.167	1959185.9	-64.78383333	17.71170167	2570	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
310827.445	1959190.71	-64.78385	17.711745	2710	cpm	soil	0.25
310827.1	1959191.64	-64.78385333	17.71175333	2550	cpm	soil	0.25
310826.419	1959194.41	-64.78386	17.71177833	2350	cpm	soil	0.25
310825.906	1959196.26	-64.783865	17.711795	2340	cpm	soil	0.25
310825.736	1959197	-64.78386667	17.71180167	2380	cpm	soil	0.25
310826.118	1959199.95	-64.78386333	17.71182833	2460	cpm	soil	0.25
310826.843	1959201.79	-64.78385667	17.711845	2420	cpm	soil	0.25
310827.916	1959203.07	-64.78384667	17.71185667	2390	cpm	soil	0.25
310829.517	1959204.16	-64.78383167	17.71186667	2340	cpm	soil	0.25
310830.406	1959204.7	-64.78382333	17.71187167	2270	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
310835.39	1959208.16	-64.78377667	17.71190333	2120	cpm	soil	0.25
310838.409	1959209.61	-64.78374833	17.71191667	1860	cpm	soil	0.25
310840.541	1959210.7	-64.78372833	17.71192667	1790	cpm	soil	0.25
310842.673	1959211.78	-64.78370833	17.71193667	1790	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
310846.23	1959213.96	-64.783675	17.71195667	1980	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310849.253	1959215.78	-64.78364667	17.71197333	1930	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310850.855	1959216.87	-64.78363167	17.71198333	1990	cpm	soil	0.25
310852.815	1959218.51	-64.78361333	17.71199833	2080	cpm	soil	0.25
310853.888	1959219.79	-64.78360333	17.71201	2110	cpm	soil	0.25
310855.315	1959221.07	-64.78359	17.71202167	2140	cpm	soil	0.25
310857.109	1959223.82	-64.78357333	17.71204667	2150	cpm	soil	0.25
310856.785	1959226.96	-64.78357667	17.712075	2110	cpm	soil	0.25
310855.924	1959229.37	-64.783585	17.71209667	2310	cpm	soil	0.25
310855.236	1959231.4	-64.78359167	17.712115	2120	cpm	soil	0.25
310854.546	1959233.25	-64.78359833	17.71213167	2270	cpm	soil	0.25
310853.858	1959235.29	-64.783605	17.71215	2180	cpm	soil	0.25
310853.869	1959236.4	-64.783605	17.71216	2120	cpm	soil	0.25
310854.427	1959239.34	-64.7836	17.71218667	2220	cpm	soil	0.25
310855.153	1959241.37	-64.78359333	17.712205	2480	cpm	soil	0.25
310855.516	1959242.28	-64.78359	17.71221333	2230	cpm	soil	0.25
310856.074	1959245.23	-64.783585	17.71224	2290	cpm	soil	0.25
310856.454	1959247.99	-64.78358167	17.712265	2320	cpm	soil	0.25
310856.128	1959250.95	-64.783585	17.71229167	2280	cpm	soil	0.25
310856.676	1959252.79	-64.78358	17.71230833	2220	cpm	soil	0.25
310857.051	1959255	-64.78357667	17.71232833	2440	cpm	soil	0.25
310857.063	1959256.29	-64.78357667	17.71234	2590	cpm	soil	0.25
310856.907	1959258.51	-64.78357833	17.71236	2740	cpm	soil	0.25
310856.222	1959260.91	-64.783585	17.71238167	2520	cpm	soil	0.25
310855.197	1959264.61	-64.783595	17.712415	2460	cpm	soil	0.25
310855.043	1959267.01	-64.78359667	17.71243667	2370	cpm	soil	0.25
310855.232	1959268.3	-64.783595	17.71244833	2580	cpm	soil	0.25
310855.443	1959271.99	-64.78359333	17.71248167	2600	cpm	soil	0.25
310855.468	1959274.57	-64.78359333	17.712505	2500	cpm	soil	0.25
310855.135	1959276.79	-64.78359667	17.712525	2500	cpm	soil	0.25
310854.272	1959279.01	-64.783605	17.712545	2440	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
310853.056	1959281.23	-64.78361667	17.712565	2330	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
310850.108	1959287.35	-64.783645	17.71262	2410	cpm	soil	0.25
310849.763	1959288.27	-64.78364833	17.71262833	2180	cpm	soil	0.25
310848.021	1959291.06	-64.783665	17.71265333	2220	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
310845.767	1959295.69	-64.78368667	17.712695	2200	cpm	soil	0.25
310845.425	1959296.99	-64.78369	17.71270667	2250	cpm	soil	0.25
310845.084	1959298.28	-64.78369333	17.71271833	2320	cpm	soil	0.25
310843.88	1959301.8	-64.783705	17.71275	2310	cpm	soil	0.25
0*	0*	0*	0*	2180	cpm	soil	0.25
310842.155	1959306.43	-64.78372167	17.71279167	2250	cpm	soil	0.25
310840.939	1959308.65	-64.78373333	17.71281167	2300	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
0*	0*	0*	0*	2730	cpm	soil	0.25
310837.982	1959313.84	-64.78376167	17.71285833	2780	cpm	soil	0.25
310837.459	1959314.59	-64.78376667	17.712865	2680	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310835.171	1959315.72	-64.78378833	17.712875	2740	cpm	soil	0.25
0*	0*	0*	0*	2430	cpm	soil	0.25
310832.362	1959317.77	-64.783815	17.71289333	2270	cpm	soil	0.25
310831.312	1959318.89	-64.783825	17.71290333	2220	cpm	soil	0.25
310830.797	1959320.55	-64.78383	17.71291833	2350	cpm	soil	0.25
310830.286	1959322.59	-64.783835	17.71293667	2530	cpm	soil	0.25
310829.61	1959325.91	-64.78384167	17.71296667	2450	cpm	soil	0.25
310829.277	1959328.13	-64.783845	17.71298667	2360	cpm	soil	0.25
310828.582	1959329.43	-64.78385167	17.71299833	2230	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
310823.459	1959329.85	-64.7839	17.71300167	2150	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
310817.975	1959329.53	-64.78395167	17.71299833	2240	cpm	soil	0.25
310814.439	1959329.56	-64.783985	17.71299833	2320	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
310810.545	1959329.05	-64.78402167	17.71299333	2580	cpm	soil	0.25
0*	0*	0*	0*	2680	cpm	soil	0.25
0*	0*	0*	0*	2880	cpm	soil	0.25
310805.594	1959329.09	-64.78406833	17.71299333	3010	cpm	soil	0.25
310806.492	1959330.56	-64.78406	17.71300667	2700	cpm	soil	0.25
310808.274	1959332.02	-64.78404333	17.71302	2530	cpm	soil	0.25
310810.406	1959333.11	-64.78402333	17.71303	2660	cpm	soil	0.25
310811.294	1959333.47	-64.784015	17.71303333	2800	cpm	soil	0.25
310814.315	1959335.1	-64.78398667	17.71304833	2680	cpm	soil	0.25
310815.913	1959335.82	-64.78397167	17.713055	2590	cpm	soil	0.25
310816.804	1959336.55	-64.78396333	17.71306167	2590	cpm	soil	0.25
0*	0*	0*	0*	2450	cpm	soil	0.25
310820.002	1959338.18	-64.78393333	17.71307667	2330	cpm	soil	0.25
310820.709	1959338.17	-64.78392667	17.71307667	2310	cpm	soil	0.25
310823.193	1959339.07	-64.78390333	17.713085	2090	cpm	soil	0.25
310824.259	1959339.62	-64.78389333	17.71309	2230	cpm	soil	0.25
310826.921	1959340.7	-64.78386833	17.7131	2430	cpm	soil	0.25
310828.878	1959341.97	-64.78385	17.71311167	2450	cpm	soil	0.25
310831.007	1959342.69	-64.78383	17.71311833	2480	cpm	soil	0.25
310833.128	1959342.67	-64.78381	17.71311833	2320	cpm	soil	0.25
310834.185	1959342.29	-64.7838	17.713115	2340	cpm	soil	0.25
310836.123	1959341.53	-64.78378167	17.71310833	2190	cpm	soil	0.25
310838.234	1959340.41	-64.78376167	17.71309833	2060	cpm	soil	0.25
310840.17	1959339.47	-64.78374333	17.71309	2020	cpm	soil	0.25
310842.278	1959337.97	-64.78372333	17.71307667	2100	cpm	soil	0.25
310844.39	1959337.03	-64.78370333	17.71306833	2020	cpm	soil	0.25
310847.567	1959336.44	-64.78367333	17.71306333	1930	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
310851.462	1959336.96	-64.78363667	17.71306833	1950	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310852.351	1959337.51	-64.78362833	17.71307333	1970	cpm	soil	0.25
310855.544	1959338.58	-64.78359833	17.71308333	2000	cpm	soil	0.25
310856.255	1959338.94	-64.78359167	17.71308667	1910	cpm	soil	0.25
310857.14	1959339.12	-64.78358333	17.71308833	1860	cpm	soil	0.25
310860.149	1959339.46	-64.783555	17.71309167	1860	cpm	soil	0.25
310861.567	1959339.82	-64.78354167	17.713095	1970	cpm	soil	0.25
310865.649	1959341.44	-64.78350333	17.71311	1960	cpm	soil	0.25
310869.731	1959343.06	-64.783465	17.713125	1980	cpm	soil	0.25
310870.974	1959343.6	-64.78345333	17.71313	2000	cpm	soil	0.25
310874.177	1959345.78	-64.78342333	17.71315	1980	cpm	soil	0.25
310875.596	1959346.32	-64.78341	17.713155	1950	cpm	soil	0.25
310879.5	1959347.76	-64.78337333	17.71316833	1980	cpm	soil	0.25
310881.807	1959348.66	-64.78335167	17.71317667	2020	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
310882.185	1959351.24	-64.78334833	17.7132	2030	cpm	soil	0.25
310880.088	1959353.85	-64.78336833	17.71322333	2090	cpm	soil	0.25
310879.041	1959355.33	-64.78337833	17.71323667	2030	cpm	soil	0.25
310877.814	1959356.45	-64.78339	17.71324667	2050	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
310874.471	1959358.14	-64.78342167	17.71326167	2000	cpm	soil	0.25
310872.354	1959358.72	-64.78344167	17.71326667	2000	cpm	soil	0.25
310870.767	1959359.1	-64.78345667	17.71327	2030	cpm	soil	0.25
310870.767	1959359.1	-64.78345667	17.71327	1890	cpm	soil	0.25
310870.06	1959359.11	-64.78346333	17.71327	1960	cpm	soil	0.25
310867.942	1959359.49	-64.78348333	17.71327333	1930	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
310863.17	1959359.72	-64.78352833	17.713275	1850	cpm	soil	0.25
310861.933	1959359.74	-64.78354	17.713275	1870	cpm	soil	0.25
310858.763	1959361.06	-64.78357	17.71328667	1990	cpm	soil	0.25
310856.112	1959361.27	-64.783595	17.71328833	2080	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
310851.518	1959361.5	-64.78363833	17.71329	1980	cpm	soil	0.25
310849.394	1959361.33	-64.78365833	17.71328833	1990	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	2030	cpm	soil	0.25
310843.713	1959358.8	-64.78371167	17.713265	1930	cpm	soil	0.25
310841.759	1959357.9	-64.78373	17.71325667	1980	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310837.143	1959355.91	-64.78377333	17.71323833	1890	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310832.528	1959353.93	-64.78381667	17.71322	1850	cpm	soil	0.25
310830.397	1959353.03	-64.78383667	17.71321167	1790	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310826.305	1959350.3	-64.783875	17.71318667	1790	cpm	soil	0.25
310824.52	1959348.47	-64.78389167	17.71317	1850	cpm	soil	0.25
310822.381	1959346.64	-64.78391167	17.71315333	1960	cpm	soil	0.25
310820.418	1959344.82	-64.78393	17.71313667	2070	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310818.279	1959342.99	-64.78395	17.71312	2090	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
310814.896	1959340.44	-64.78398167	17.71309667	2290	cpm	soil	0.25
310812.403	1959338.62	-64.784005	17.71308	2350	cpm	soil	0.25
310809.916	1959337.35	-64.78402833	17.71306833	2210	cpm	soil	0.25
310807.973	1959337.56	-64.78404667	17.71307	2270	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
310808.71	1959340.69	-64.78404	17.71309833	2300	cpm	soil	0.25
310811.574	1959344.35	-64.78401333	17.71313167	2230	cpm	soil	0.25
310813.711	1959345.99	-64.78399333	17.71314667	2150	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
310818.685	1959348.52	-64.78394667	17.71317	2230	cpm	soil	0.25
310820.999	1959350.16	-64.783925	17.713185	2030	cpm	soil	0.25
310822.962	1959351.99	-64.78390667	17.71320167	2140	cpm	soil	0.25
310825.274	1959353.44	-64.783885	17.713215	1980	cpm	soil	0.25
310826.342	1959354.17	-64.783875	17.71322167	2070	cpm	soil	0.25
310830.254	1959356.53	-64.78383833	17.71324333	2230	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
310833.469	1959360.01	-64.78380833	17.713275	2080	cpm	soil	0.25
310835.251	1959361.47	-64.78379167	17.71328833	2070	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
310838.638	1959364.38	-64.78376	17.713315	2310	cpm	soil	0.25
310839.893	1959366.22	-64.78374833	17.71333167	2280	cpm	soil	0.25
310841.325	1959368.05	-64.783735	17.71334833	2290	cpm	soil	0.25
310842.933	1959369.88	-64.78372	17.713365	2220	cpm	soil	0.25
310843.824	1959370.61	-64.78371167	17.71337167	2300	cpm	soil	0.25
310846.669	1959372.24	-64.783685	17.71338667	2080	cpm	soil	0.25
310848.969	1959372.4	-64.78366333	17.71338833	1910	cpm	soil	0.25
310850.915	1959372.57	-64.783645	17.71339	1930	cpm	soil	0.25
310853.046	1959373.47	-64.783625	17.71339833	1780	cpm	soil	0.25
310853.933	1959373.83	-64.78361667	17.71340167	1820	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1950	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1790	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1780	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1690	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1620	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1630	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1650	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1610	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1640	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1640	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1660	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1620	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1650	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310854.645	1959374.38	-64.78361	17.71340667	1590	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1590	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1490	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1560	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1470	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1430	cpm	soil	0.25
0*	0*	0*	0*	1440	cpm	soil	0.25
0*	0*	0*	0*	1430	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1520	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1560	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1540	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1520	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1590	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1620	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1530	cpm	soil	0.25
310856.594	1959374.73	-64.78359167	17.71341	1510	cpm	soil	0.25
310859.076	1959375.44	-64.78356833	17.71341667	1640	cpm	soil	0.25
310861.208	1959376.53	-64.78354833	17.71342667	1590	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310865.107	1959377.6	-64.78351167	17.71343667	1620	cpm	soil	0.25
310865.274	1959376.49	-64.78351	17.71342667	1710	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
310863.979	1959370.42	-64.78352167	17.71337167	1840	cpm	soil	0.25
310863.788	1959368.94	-64.78352333	17.71335833	1990	cpm	soil	0.25
310864.46	1959365.25	-64.78351667	17.713325	1920	cpm	soil	0.25
310866.566	1959363.57	-64.78349667	17.71331	2030	cpm	soil	0.25
310868.859	1959362.99	-64.783475	17.713305	2030	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
310873.972	1959361.47	-64.78342667	17.71329167	1800	cpm	soil	0.25
310876.618	1959360.89	-64.78340167	17.71328667	1930	cpm	soil	0.25
310879.088	1959360.31	-64.78337833	17.71328167	2070	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
310884.024	1959358.79	-64.78333167	17.71326833	1990	cpm	soil	0.25
310886.328	1959359.32	-64.78331	17.71327333	1970	cpm	soil	0.25
310887.228	1959360.97	-64.78330167	17.71328833	1950	cpm	soil	0.25
310887.411	1959361.71	-64.7833	17.713295	1990	cpm	soil	0.25
310887.411	1959361.71	-64.7833	17.713295	2100	cpm	soil	0.25
310887.595	1959362.44	-64.78329833	17.71330167	1960	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
310889.757	1959366.67	-64.78327833	17.71334	2050	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
310891.355	1959367.39	-64.78326333	17.71334667	1850	cpm	soil	0.25
310891.539	1959368.13	-64.78326167	17.71335333	1760	cpm	soil	0.25
310890.683	1959371.09	-64.78327	17.71338	1740	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310889.109	1959372.95	-64.783285	17.71339667	1800	cpm	soil	0.25
310886.119	1959374.63	-64.78331333	17.71341167	1910	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	2380	cpm	soil	0.25
310877.306	1959377.49	-64.78339667	17.71343667	2580	cpm	soil	0.25
310876.07	1959377.68	-64.78340833	17.71343833	2360	cpm	soil	0.25
310872.715	1959378.08	-64.78344	17.71344167	2180	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
310867.952	1959379.23	-64.783485	17.71345167	2230	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
310862.491	1959381.32	-64.78353667	17.71347	2060	cpm	soil	0.25
310860.73	1959382.07	-64.78355333	17.71347667	1900	cpm	soil	0.25
310859.671	1959382.26	-64.78356333	17.71347833	1860	cpm	soil	0.25
310857.026	1959383.03	-64.78358833	17.713485	1800	cpm	soil	0.25
310855.268	1959384.15	-64.783605	17.713495	1930	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
310852.111	1959386.76	-64.783635	17.71351833	1850	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
0*	0*	0*	0*	1880	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310853.078	1959395.61	-64.78362667	17.71359833	1640	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
310855.758	1959398.54	-64.78360167	17.713625	1630	cpm	soil	0.25
310857.01	1959400	-64.78359	17.71363833	1590	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310858.986	1959403.3	-64.78357167	17.71366833	1590	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
310860.959	1959406.23	-64.78355333	17.713695	1340	cpm	soil	0.25
310861.855	1959407.52	-64.783545	17.71370667	1370	cpm	soil	0.25
0*	0*	0*	0*	1370	cpm	soil	0.25
310863.808	1959408.42	-64.78352667	17.713715	1360	cpm	soil	0.25
310865.051	1959408.96	-64.783515	17.71372	1380	cpm	soil	0.25
310865.935	1959408.95	-64.78350667	17.71372	1420	cpm	soil	0.25
310868.771	1959409.67	-64.78348	17.71372667	1520	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310870.736	1959411.86	-64.78346167	17.71374667	1760	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310872.361	1959415.35	-64.78344667	17.71377833	1870	cpm	soil	0.25
310871.491	1959416.83	-64.783455	17.71379167	1910	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310868.676	1959418.34	-64.78348167	17.713805	1750	cpm	soil	0.25
310866.915	1959419.09	-64.78349833	17.71381167	1700	cpm	soil	0.25
310865.156	1959420.03	-64.783515	17.71382	1790	cpm	soil	0.25
310863.397	1959420.97	-64.78353167	17.71382833	1700	cpm	soil	0.25
0*	0*	0*	0*	1800	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310859.887	1959423.77	-64.783565	17.71385333	1760	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310855.669	1959426.39	-64.783605	17.71387667	1710	cpm	soil	0.25
310853.559	1959427.7	-64.783625	17.71388833	1570	cpm	soil	0.25
0*	0*	0*	0*	1560	cpm	soil	0.25
310849.346	1959430.88	-64.783665	17.71391667	1470	cpm	soil	0.25
310847.772	1959432.74	-64.78368	17.71393333	1600	cpm	soil	0.25
310846.896	1959433.49	-64.78368833	17.71394	1620	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310842.5	1959436.11	-64.78373	17.71396333	1660	cpm	soil	0.25
310840.041	1959437.79	-64.78375333	17.71397833	1750	cpm	soil	0.25
310837.583	1959439.66	-64.78377667	17.713995	1660	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310832.318	1959443.77	-64.78382667	17.71403167	1970	cpm	soil	0.25
310831.441	1959444.52	-64.783835	17.71403833	1960	cpm	soil	0.25
310828.455	1959446.57	-64.78386333	17.71405667	2070	cpm	soil	0.25
310826.346	1959447.89	-64.78388333	17.71406833	2030	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
310822.141	1959451.98	-64.78392333	17.714105	2130	cpm	soil	0.25
0*	0*	0*	0*	2180	cpm	soil	0.25
310817.755	1959455.53	-64.783965	17.71413667	2130	cpm	soil	0.25
310816.526	1959456.46	-64.78397667	17.714145	2150	cpm	soil	0.25
310813.547	1959459.26	-64.784005	17.71417	2150	cpm	soil	0.25
310811.443	1959461.12	-64.784025	17.71418667	2070	cpm	soil	0.25
310809.157	1959462.44	-64.78404667	17.71419833	2060	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
310805.605	1959460.81	-64.78408	17.71418333	1730	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310804.326	1959456.4	-64.78409167	17.71414333	1710	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310806.403	1959451.76	-64.78407167	17.71410167	1820	cpm	soil	0.25
310807.8	1959449.91	-64.78405833	17.714085	1820	cpm	soil	0.25
310809.374	1959448.05	-64.78404333	17.71406833	1750	cpm	soil	0.25
310810.59	1959445.82	-64.78403167	17.71404833	1740	cpm	soil	0.25
310811.984	1959443.59	-64.78401833	17.71402833	1700	cpm	soil	0.25
310813.557	1959441.73	-64.78400333	17.71401167	1800	cpm	soil	0.25
310814.781	1959440.25	-64.78399167	17.71399833	1860	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
310815.833	1959439.31	-64.78398167	17.71399	1710	cpm	soil	0.25
310815.833	1959439.31	-64.78398167	17.71399	1640	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
310815.833	1959439.31	-64.78398167	17.71399	1540	cpm	soil	0.25
310815.833	1959439.31	-64.78398167	17.71399	1550	cpm	soil	0.25
310816.533	1959438.57	-64.783975	17.71398333	1550	cpm	soil	0.25
310818.283	1959436.71	-64.78395833	17.71396667	1530	cpm	soil	0.25
310820.391	1959435.21	-64.78393833	17.71395333	1660	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310823.906	1959432.97	-64.783905	17.71393333	1640	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310827.065	1959430.54	-64.783875	17.71391167	1720	cpm	soil	0.25
310828.994	1959428.86	-64.78385667	17.71389667	1850	cpm	soil	0.25
310830.925	1959427.36	-64.78383833	17.71388333	1900	cpm	soil	0.25
310832.857	1959426.06	-64.78382	17.71387167	1960	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
310837.426	1959423.06	-64.78377667	17.713845	1860	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
310840.943	1959421	-64.78374333	17.71382667	1980	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25
310863.148	1959413.41	-64.78353333	17.71376	1470	cpm	soil	0.25
0*	0*	0*	0*	1440	cpm	soil	0.25
310864.766	1959416.16	-64.78351833	17.713785	1510	cpm	soil	0.25
310865.851	1959418.73	-64.78350833	17.71380833	1640	cpm	soil	0.25
310865.868	1959420.58	-64.78350833	17.713825	1640	cpm	soil	0.25
310864.645	1959422.06	-64.78352	17.71383833	1620	cpm	soil	0.25
310863.768	1959422.81	-64.78352833	17.713845	1690	cpm	soil	0.25
310860.78	1959424.68	-64.78355667	17.71386167	1750	cpm	soil	0.25
0*	0*	0*	0*	1630	cpm	soil	0.25
310857.804	1959427.85	-64.783585	17.71389	1640	cpm	soil	0.25
310857.104	1959428.59	-64.78359167	17.71389667	1660	cpm	soil	0.25
310855.527	1959430.08	-64.78360667	17.71391	1640	cpm	soil	0.25
310854.303	1959431.57	-64.78361833	17.71392333	1620	cpm	soil	0.25
0*	0*	0*	0*	1530	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
310849.925	1959436.04	-64.78366	17.71396333	1470	cpm	soil	0.25
310848.173	1959437.72	-64.78367667	17.71397833	1580	cpm	soil	0.25
310846.589	1959438.47	-64.78369167	17.713985	1620	cpm	soil	0.25
310845.541	1959439.77	-64.78370167	17.71399667	1680	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
310845.045	1959443.46	-64.78370667	17.71403	1940	cpm	soil	0.25
310878.653	1959463.62	-64.78339167	17.714215	1680	cpm	soil	0.25
310880.258	1959465.08	-64.78337667	17.71422833	1690	cpm	soil	0.25
310880.457	1959467.48	-64.783375	17.71425	1700	cpm	soil	0.25
310879.414	1959469.34	-64.783385	17.71426667	1730	cpm	soil	0.25
310878.192	1959471.01	-64.78339667	17.71428167	1680	cpm	soil	0.25
310876.615	1959472.5	-64.78341167	17.714295	1690	cpm	soil	0.25
310874.861	1959473.99	-64.78342833	17.71430833	1620	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310870.986	1959475.5	-64.783465	17.71432167	1680	cpm	soil	0.25
310869.93	1959476.07	-64.783475	17.71432667	1620	cpm	soil	0.25
310867.471	1959477.75	-64.78349833	17.71434167	1590	cpm	soil	0.25
310866.592	1959478.31	-64.78350667	17.71434667	1740	cpm	soil	0.25
310865.712	1959478.69	-64.783515	17.71435	1690	cpm	soil	0.25
310864.656	1959479.25	-64.783525	17.714355	1740	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310864.656	1959479.25	-64.783525	17.714355	1850	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
310864.656	1959479.25	-64.783525	17.714355	2000	cpm	soil	0.25
310864.656	1959479.25	-64.783525	17.714355	2050	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
310823.677	1959502.15	-64.78391333	17.71455833	1870	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310819.984	1959504.21	-64.78394833	17.71457667	1590	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
310819.658	1959507.17	-64.78395167	17.71460333	1520	cpm	soil	0.25
0*	0*	0*	0*	1540	cpm	soil	0.25
310824.082	1959507.49	-64.78391	17.71460667	1470	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310827.787	1959506.72	-64.783875	17.7146	1470	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310831.659	1959504.84	-64.78383833	17.71458333	1460	cpm	soil	0.25
310832.361	1959504.28	-64.78383167	17.71457833	1490	cpm	soil	0.25
310834.467	1959502.6	-64.78381167	17.71456333	1470	cpm	soil	0.25
310835.874	1959501.85	-64.78379833	17.71455667	1410	cpm	soil	0.25
310836.576	1959501.29	-64.78379167	17.71455167	1380	cpm	soil	0.25
310838.684	1959499.79	-64.78377167	17.71453833	1270	cpm	soil	0.25
310840.087	1959498.67	-64.78375833	17.71452833	1200	cpm	soil	0.25
0*	0*	0*	0*	1270	cpm	soil	0.25
310842.193	1959496.99	-64.78373833	17.71451333	1260	cpm	soil	0.25
310843.595	1959495.69	-64.783725	17.71450167	1220	cpm	soil	0.25
0*	0*	0*	0*	1290	cpm	soil	0.25
310847.112	1959493.62	-64.78369167	17.71448333	1310	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
310885.89	1959481.08	-64.783325	17.71437333	1760	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310889.433	1959481.78	-64.78329167	17.71438	1740	cpm	soil	0.25
310890.494	1959481.77	-64.78328167	17.71438	1730	cpm	soil	0.25
310893.681	1959482.3	-64.78325167	17.714385	1770	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
310898.285	1959482.99	-64.78320833	17.71439167	1770	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310902.361	1959484.06	-64.78317	17.71440167	1780	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
310906.441	1959485.5	-64.78313167	17.714415	1570	cpm	soil	0.25
0*	0*	0*	0*	1480	cpm	soil	0.25
0*	0*	0*	0*	1530	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
310909.667	1959490.08	-64.78310167	17.71445667	1350	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310908.444	1959491.57	-64.78311333	17.71447	1440	cpm	soil	0.25
310907.033	1959491.95	-64.78312667	17.71447333	1470	cpm	soil	0.25
310906.153	1959492.33	-64.783135	17.71447667	1570	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310857.855	1959507.91	-64.78359167	17.71461333	1490	cpm	soil	0.25
0*	0*	0*	0*	1570	cpm	soil	0.25
310853.984	1959509.79	-64.78362833	17.71463	1530	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310849.406	1959511.86	-64.78367167	17.71464833	1660	cpm	soil	0.25
310847.299	1959513.36	-64.78369167	17.71466167	1630	cpm	soil	0.25
310846.602	1959514.47	-64.78369833	17.71467167	1630	cpm	soil	0.25
310846.635	1959517.98	-64.78369833	17.71470333	1650	cpm	soil	0.25
310847.36	1959519.82	-64.78369167	17.71472	1780	cpm	soil	0.25
310848.958	1959520.54	-64.78367667	17.71472667	1640	cpm	soil	0.25
310851.081	1959520.7	-64.78365667	17.71472833	1530	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310856.203	1959520.1	-64.78360833	17.71472333	1650	cpm	soil	0.25
310857.439	1959519.91	-64.78359667	17.71472167	1600	cpm	soil	0.25
310861.493	1959518.58	-64.78355833	17.71471	1550	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
310866.959	1959517.05	-64.78350667	17.71469667	1580	cpm	soil	0.25
310869.784	1959516.65	-64.78348	17.71469333	1690	cpm	soil	0.25
310872.256	1959516.26	-64.78345667	17.71469	1640	cpm	soil	0.25
310874.727	1959515.87	-64.78343333	17.71468667	1630	cpm	soil	0.25
0*	0*	0*	0*	1540	cpm	soil	0.25
310880.022	1959514.9	-64.78338333	17.71467833	1550	cpm	soil	0.25
0*	0*	0*	0*	1660	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1630	cpm	soil	0.25
310889.55	1959512.78	-64.78329333	17.71466	1630	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310893.604	1959511.45	-64.783255	17.71464833	1620	cpm	soil	0.25
0*	0*	0*	0*	1540	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310900.133	1959510.09	-64.78319333	17.71463667	1570	cpm	soil	0.25
310902.781	1959509.7	-64.78316833	17.71463333	1590	cpm	soil	0.25
0*	0*	0*	0*	1560	cpm	soil	0.25
310906.662	1959508.74	-64.78313167	17.714625	1560	cpm	soil	0.25
310907.367	1959508.55	-64.783125	17.71462333	1610	cpm	soil	0.25
310909.481	1959507.79	-64.783105	17.71461667	1600	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
310911.423	1959507.4	-64.78308667	17.71461333	1600	cpm	soil	0.25
310912.835	1959507.21	-64.78307333	17.71461167	1560	cpm	soil	0.25
310916.898	1959506.8	-64.783035	17.71460833	1550	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
310922.553	1959506.56	-64.78298167	17.71460667	1650	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
310925.566	1959507.27	-64.78295333	17.71461333	1550	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310928.414	1959509.27	-64.78292667	17.71463167	1710	cpm	soil	0.25
310956.364	1959529.48	-64.782665	17.71481667	2200	cpm	soil	0.25
310959.201	1959530.38	-64.78263833	17.714825	2250	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
310963.817	1959532.37	-64.782595	17.71484333	2380	cpm	soil	0.25
0*	0*	0*	0*	2500	cpm	soil	0.25
310967.906	1959534.72	-64.78255667	17.714865	2260	cpm	soil	0.25
310969.509	1959536	-64.78254167	17.71487667	2120	cpm	soil	0.25
310970.409	1959537.65	-64.78253333	17.71489167	2010	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
310971.142	1959540.41	-64.78252667	17.71491667	1990	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310971.17	1959543.36	-64.78252667	17.71494333	1780	cpm	soil	0.25
310971.354	1959544.1	-64.782525	17.71495	1710	cpm	soil	0.25
310971.564	1959547.6	-64.78252333	17.71498167	1700	cpm	soil	0.25
310971.397	1959548.71	-64.782525	17.71499167	1730	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310972.328	1959553.68	-64.78251667	17.71503667	1880	cpm	soil	0.25
310974.459	1959554.59	-64.78249667	17.715045	1830	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
310979.939	1959554.53	-64.782445	17.715045	1630	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
310985.061	1959553.93	-64.78239667	17.71504	1680	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
310845.32	1959416.53	-64.78370167	17.71378667	1800	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
310847.948	1959413.92	-64.78367667	17.71376333	1770	cpm	soil	0.25
310848.826	1959413.36	-64.78366833	17.71375833	1750	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310853.383	1959409.07	-64.783625	17.71372	1580	cpm	soil	0.25
310854.792	1959408.51	-64.78361167	17.713715	1610	cpm	soil	0.25
310855.842	1959407.39	-64.78360167	17.713705	1570	cpm	soil	0.25
310857.066	1959405.9	-64.78359	17.71369167	1520	cpm	soil	0.25
0*	0*	0*	0*	1420	cpm	soil	0.25
310859.354	1959404.77	-64.78356833	17.71368167	1350	cpm	soil	0.25
310859.884	1959404.77	-64.78356333	17.71368167	1340	cpm	soil	0.25
310860.062	1959404.95	-64.78356167	17.71368333	1400	cpm	soil	0.25
310859.536	1959405.33	-64.78356667	17.71368667	1440	cpm	soil	0.25
310859.536	1959405.33	-64.78356667	17.71368667	1340	cpm	soil	0.25
310859.536	1959405.33	-64.78356667	17.71368667	1360	cpm	soil	0.25
310859.898	1959406.24	-64.78356333	17.713695	1320	cpm	soil	0.25
310860.44	1959407.53	-64.78355833	17.71370667	1400	cpm	soil	0.25
310861.165	1959409.37	-64.78355167	17.71372333	1390	cpm	soil	0.25
310845.408	1959444.38	-64.78370333	17.71403833	2000	cpm	soil	0.25
310846.307	1959446.04	-64.783695	17.71405333	1970	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310846.668	1959446.77	-64.78369167	17.71406	1940	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310850.251	1959451.72	-64.78365833	17.714105	1950	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
310851.182	1959456.69	-64.78365	17.71415	2170	cpm	soil	0.25
310851.014	1959457.61	-64.78365167	17.71415833	2260	cpm	soil	0.25
310850.686	1959460.38	-64.783655	17.71418333	2130	cpm	soil	0.25
310851.945	1959462.59	-64.78364333	17.71420333	2270	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
310854.814	1959466.8	-64.78361667	17.71424167	2390	cpm	soil	0.25
310856.249	1959469	-64.78360333	17.71426167	2220	cpm	soil	0.25
310857.681	1959470.83	-64.78359	17.71427833	2220	cpm	soil	0.25
310860.156	1959470.81	-64.78356667	17.71427833	2050	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
310867.562	1959468.71	-64.78349667	17.71426	1830	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
310874.066	1959464.77	-64.783435	17.714225	1800	cpm	soil	0.25
310876.531	1959463.64	-64.78341167	17.714215	1730	cpm	soil	0.25
310861.488	1959480.76	-64.783555	17.71436833	2200	cpm	soil	0.25
310859.906	1959481.7	-64.78357	17.71437667	2030	cpm	soil	0.25
310858.146	1959482.63	-64.78358667	17.714385	1950	cpm	soil	0.25
310856.384	1959483.2	-64.78360333	17.71439	2030	cpm	soil	0.25
310853.741	1959484.15	-64.78362833	17.71439833	1950	cpm	soil	0.25
310851.98	1959484.91	-64.783645	17.714405	1980	cpm	soil	0.25
310850.221	1959485.85	-64.78366167	17.71441333	2050	cpm	soil	0.25
310848.283	1959486.6	-64.78368	17.71442	2010	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
310844.945	1959488.85	-64.78371167	17.71444	2000	cpm	soil	0.25
310844.245	1959489.59	-64.78371833	17.71444667	1860	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
310840.56	1959492.58	-64.78375333	17.71447333	1760	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
310837.397	1959494.64	-64.78378333	17.71449167	1760	cpm	soil	0.25
310836.518	1959495.2	-64.78379167	17.71449667	1620	cpm	soil	0.25
310834.059	1959496.88	-64.783815	17.71451167	1630	cpm	soil	0.25
310832.478	1959498.01	-64.78383	17.71452167	1730	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
310829.317	1959500.25	-64.78386	17.71454167	1780	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310825.438	1959501.39	-64.78389667	17.71455167	1800	cpm	soil	0.25
310849.048	1959492.68	-64.78367333	17.714475	1280	cpm	soil	0.25
310850.987	1959492.11	-64.783655	17.71447	1320	cpm	soil	0.25
0*	0*	0*	0*	1380	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25
310856.093	1959489.85	-64.78360667	17.71445	1450	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310858.561	1959489.09	-64.78358333	17.71444333	1490	cpm	soil	0.25
310860.147	1959488.52	-64.78356833	17.71443833	1680	cpm	soil	0.25
310860.851	1959488.14	-64.78356167	17.714435	1800	cpm	soil	0.25
310863.138	1959487.01	-64.78354	17.714425	1960	cpm	soil	0.25
310864.901	1959486.44	-64.78352333	17.71442	1880	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310868.426	1959485.3	-64.78349	17.71441	1690	cpm	soil	0.25
310870.191	1959484.92	-64.78347333	17.71440667	1720	cpm	soil	0.25
310871.602	1959484.54	-64.78346	17.71440333	1750	cpm	soil	0.25
310873.186	1959483.78	-64.783445	17.71439667	1760	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
310876.182	1959482.83	-64.78341667	17.71438833	1560	cpm	soil	0.25
310877.593	1959482.45	-64.78340333	17.714385	1550	cpm	soil	0.25
310878.297	1959482.07	-64.78339667	17.71438167	1580	cpm	soil	0.25
310880.767	1959481.5	-64.78337333	17.71437667	1680	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
310882.529	1959480.93	-64.78335667	17.71437167	1720	cpm	soil	0.25
310903.681	1959492.72	-64.78315833	17.71448	1610	cpm	soil	0.25
310901.034	1959493.3	-64.78318333	17.714485	1630	cpm	soil	0.25
310898.915	1959493.5	-64.78320333	17.71448667	1570	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
310894.852	1959493.91	-64.78324167	17.71449	1630	cpm	soil	0.25
310892.909	1959494.11	-64.78326	17.71449167	1680	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
310889.203	1959494.88	-64.783295	17.71449833	1650	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310885.323	1959495.84	-64.78333167	17.71450667	1680	cpm	soil	0.25
310883.385	1959496.6	-64.78335	17.71451333	1600	cpm	soil	0.25
310881.449	1959497.54	-64.78336833	17.71452167	1620	cpm	soil	0.25
310878.276	1959498.49	-64.78339833	17.71453	1600	cpm	soil	0.25
310877.217	1959498.69	-64.78340833	17.71453167	1550	cpm	soil	0.25
310873.866	1959499.64	-64.78344	17.71454	1550	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
310869.282	1959500.98	-64.78348333	17.71455167	1400	cpm	soil	0.25
310866.993	1959501.92	-64.783505	17.71456	1440	cpm	soil	0.25
310865.939	1959502.67	-64.783515	17.71456667	1430	cpm	soil	0.25
310863.303	1959504.35	-64.78354	17.71458167	1490	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25
310859.613	1959506.79	-64.783575	17.71460333	1520	cpm	soil	0.25
310882.317	1959514.5	-64.78336167	17.714675	1530	cpm	soil	0.25
310882.847	1959514.5	-64.78335667	17.714675	1510	cpm	soil	0.25
0*	0*	0*	0*	1570	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310883.905	1959514.12	-64.78334667	17.71467167	1570	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
310885.844	1959513.55	-64.78332833	17.71466667	1540	cpm	soil	0.25
310886.198	1959513.55	-64.783325	17.71466667	1510	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310886.198	1959513.55	-64.783325	17.71466667	1560	cpm	soil	0.25
310886.198	1959513.55	-64.783325	17.71466667	1570	cpm	soil	0.25
310886.198	1959513.55	-64.783325	17.71466667	1560	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1580	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1590	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1550	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1610	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1600	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1660	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1690	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1740	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1740	cpm	soil	0.25
310929.313	1959510.92	-64.78291833	17.71464667	1630	cpm	soil	0.25
310929.674	1959511.66	-64.782915	17.71465333	1700	cpm	soil	0.25
310929.859	1959512.58	-64.78291333	17.71466167	1650	cpm	soil	0.25
310930.241	1959515.53	-64.78291	17.71468833	1790	cpm	soil	0.25
310931.141	1959517.18	-64.78290167	17.71470333	1950	cpm	soil	0.25
310932.394	1959518.83	-64.78289	17.71471833	1870	cpm	soil	0.25
310933.47	1959520.48	-64.78288	17.71473333	2020	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
310936.507	1959523.77	-64.78285167	17.71476333	1870	cpm	soil	0.25
310938.291	1959525.41	-64.782835	17.71477833	1750	cpm	soil	0.25
310941.133	1959526.86	-64.78280833	17.71479167	1700	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310946.794	1959527.18	-64.782755	17.714795	1860	cpm	soil	0.25
310949.264	1959526.6	-64.78273167	17.71479	1860	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
310949.983	1959527.88	-64.782725	17.71480167	2010	cpm	soil	0.25
310949.814	1959528.62	-64.78272667	17.71480833	2010	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310951.951	1959530.26	-64.78270667	17.71482333	2030	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
310955.478	1959529.31	-64.78267333	17.714815	2040	cpm	soil	0.25
310987.714	1959554.09	-64.78237167	17.71504167	1780	cpm	soil	0.25
310990.37	1959554.44	-64.78234667	17.715045	1810	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
310993.909	1959554.77	-64.78231333	17.71504833	1960	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
311001.871	1959555.43	-64.78223833	17.715055	1920	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311006.818	1959555.02	-64.78219167	17.71505167	1930	cpm	soil	0.25
311009.116	1959555	-64.78217	17.71505167	2020	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311013.893	1959555.32	-64.782125	17.715055	1920	cpm	soil	0.25
311016.193	1959555.48	-64.78210333	17.71505667	1940	cpm	soil	0.25
0*	0*	0*	0*	1880	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311014.824	1959560.29	-64.78211667	17.7151	1930	cpm	soil	0.25
311011.299	1959561.43	-64.78215	17.71511	1820	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311005.652	1959562.59	-64.78220333	17.71512	1650	cpm	soil	0.25
311002.825	1959562.8	-64.78223	17.71512167	1540	cpm	soil	0.25
0*	0*	0*	0*	1570	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
310978.163	1959591.08	-64.782465	17.715375	2280	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
310978.902	1959594.39	-64.78245833	17.715405	2160	cpm	soil	0.25
310979.089	1959595.5	-64.78245667	17.715415	2100	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2040	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2100	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2270	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2200	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2220	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
310980.694	1959596.96	-64.78244167	17.71542833	2410	cpm	soil	0.25
0*	0*	0*	0*	2560	cpm	soil	0.25
310982.291	1959597.5	-64.78242667	17.71543333	2460	cpm	soil	0.25
310982.473	1959598.05	-64.782425	17.71543833	2400	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
310980.904	1959600.46	-64.78244	17.71546	2070	cpm	soil	0.25
310980.206	1959601.39	-64.78244667	17.71546833	2120	cpm	soil	0.25
310980.031	1959601.58	-64.78244833	17.71547	2150	cpm	soil	0.25
0*	0*	0*	0*	2180	cpm	soil	0.25
310995.225	1959563.06	-64.78230167	17.71512333	1710	cpm	soil	0.25
310990.089	1959562.19	-64.78235	17.715115	1630	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
310984.95	1959560.94	-64.78239833	17.71510333	1660	cpm	soil	0.25
310982.649	1959560.6	-64.78242	17.7151	1690	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
310975.761	1959561.4	-64.782485	17.71510667	1770	cpm	soil	0.25
310974.88	1959561.78	-64.78249333	17.71511	1950	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
310972.789	1959564.93	-64.78251333	17.71513833	1930	cpm	soil	0.25
310972.452	1959566.78	-64.78251667	17.715155	1980	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
310971.605	1959570.66	-64.782525	17.71519	2110	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310971.796	1959572.14	-64.78252333	17.71520333	2090	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
310971.67	1959577.49	-64.782525	17.71525167	2060	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
310973.131	1959582.45	-64.78251167	17.71529667	2080	cpm	soil	0.25
310974.918	1959584.47	-64.782495	17.715315	2150	cpm	soil	0.25
310976.177	1959586.67	-64.78248333	17.715335	2390	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	2120	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	1950	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	1900	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	2090	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	2170	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	2160	cpm	soil	0.25
310978.268	1959602.15	-64.782465	17.715475	2100	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
310967.862	1959604.83	-64.78256333	17.71549833	2200	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
310961.86	1959605.81	-64.78262	17.71550667	2260	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
310950.038	1959608.32	-64.78273167	17.71552833	2100	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310944.216	1959609.66	-64.78278667	17.71554	2130	cpm	soil	0.25
310942.805	1959610.04	-64.7828	17.71554333	2190	cpm	soil	0.25
310877.588	1959631.14	-64.78341667	17.71572833	2210	cpm	soil	0.25
310873.717	1959633.21	-64.78345333	17.71574667	2150	cpm	soil	0.25
310871.255	1959634.52	-64.78347667	17.71575833	2200	cpm	soil	0.25
310868.79	1959635.65	-64.7835	17.71576833	2230	cpm	soil	0.25
310866.502	1959636.78	-64.78352167	17.71577833	2150	cpm	soil	0.25
310862.629	1959638.48	-64.78355833	17.71579333	2190	cpm	soil	0.25
310860.168	1959639.98	-64.78358167	17.71580667	2090	cpm	soil	0.25
310858.599	1959642.39	-64.78359667	17.71582833	2220	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310857.764	1959647.56	-64.783605	17.715875	1960	cpm	soil	0.25
310855.657	1959649.06	-64.783625	17.71588833	1820	cpm	soil	0.25
310852.832	1959649.45	-64.78365167	17.71589167	1940	cpm	soil	0.25
310849.655	1959650.04	-64.78368167	17.71589667	1870	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310843.299	1959651.02	-64.78374167	17.715905	1670	cpm	soil	0.25
310840.658	1959652.15	-64.78376667	17.715915	1490	cpm	soil	0.25
0*	0*	0*	0*	1370	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310840.519	1959656.21	-64.78376833	17.71595167	1400	cpm	soil	0.25
0*	0*	0*	0*	1360	cpm	soil	0.25
0*	0*	0*	0*	1270	cpm	soil	0.25
310849	1959655.58	-64.78368833	17.71594667	1230	cpm	soil	0.25
310851.641	1959654.45	-64.78366333	17.71593667	1340	cpm	soil	0.25
310849.994	1959667.19	-64.78368	17.71605167	1230	cpm	soil	0.25
0*	0*	0*	0*	1330	cpm	soil	0.25
310856.526	1959666.21	-64.78361833	17.71604333	1390	cpm	soil	0.25
310859.71	1959666.36	-64.78358833	17.716045	1420	cpm	soil	0.25
0*	0*	0*	0*	1390	cpm	soil	0.25
310865.539	1959665.75	-64.78353333	17.71604	1400	cpm	soil	0.25
310868.363	1959665.17	-64.78350667	17.716035	1400	cpm	soil	0.25
310870.645	1959663.49	-64.783485	17.71602	1420	cpm	soil	0.25
310870.972	1959660.72	-64.78348167	17.715995	1360	cpm	soil	0.25
0*	0*	0*	0*	1340	cpm	soil	0.25
310870.39	1959655.19	-64.78348667	17.715945	1300	cpm	soil	0.25
0*	0*	0*	0*	1280	cpm	soil	0.25
310868.398	1959650.23	-64.783505	17.7159	1350	cpm	soil	0.25
310866.257	1959648.22	-64.783525	17.71588167	1270	cpm	soil	0.25
0*	0*	0*	0*	1310	cpm	soil	0.25
310860.927	1959645.5	-64.783575	17.71585667	1320	cpm	soil	0.25
310859.506	1959644.78	-64.78358833	17.71585	1390	cpm	soil	0.25
310855.776	1959642.97	-64.78362333	17.71583333	1690	cpm	soil	0.25
310852.774	1959643.37	-64.78365167	17.71583667	1960	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
310848.011	1959644.52	-64.78369667	17.71584667	2070	cpm	soil	0.25
310845.016	1959645.65	-64.783725	17.71585667	1930	cpm	soil	0.25
310797.453	1959645.37	-64.78417333	17.71585	1500	cpm	soil	0.25
310795.146	1959644.47	-64.784195	17.71584167	1500	cpm	soil	0.25
310793.193	1959643.56	-64.78421333	17.71583333	1370	cpm	soil	0.25
0*	0*	0*	0*	1330	cpm	soil	0.25
310789.643	1959642.12	-64.78424667	17.71582	1320	cpm	soil	0.25
310785.388	1959640.87	-64.78428667	17.71580833	1370	cpm	soil	0.25
310783.97	1959640.51	-64.7843	17.715805	1300	cpm	soil	0.25
310780.952	1959639.25	-64.78432833	17.71579333	1270	cpm	soil	0.25
0*	0*	0*	0*	1270	cpm	soil	0.25
0*	0*	0*	0*	1240	cpm	soil	0.25
310779.71	1959638.71	-64.78434	17.71578833	1320	cpm	soil	0.25
310775.453	1959637.27	-64.78438	17.715775	1420	cpm	soil	0.25
0*	0*	0*	0*	1360	cpm	soil	0.25
310769.953	1959635.3	-64.78443167	17.71575667	1380	cpm	soil	0.25
310768.535	1959634.94	-64.784445	17.71575333	1490	cpm	soil	0.25
310764.28	1959633.69	-64.784485	17.71574167	1570	cpm	soil	0.25
310760.196	1959631.88	-64.78452333	17.715725	1570	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310756.489	1959632.47	-64.78455833	17.71573	1670	cpm	soil	0.25
310756.158	1959634.87	-64.78456167	17.71575167	1770	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310759.887	1959636.5	-64.78452667	17.71576667	1780	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310823.35	1959654.16	-64.78393	17.71593167	1880	cpm	soil	0.25
310828.123	1959654.11	-64.783885	17.71593167	1900	cpm	soil	0.25
310830.782	1959654.83	-64.78386	17.71593833	1810	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
310832.053	1959658.32	-64.78384833	17.71597	1660	cpm	soil	0.25
310829.942	1959659.45	-64.78386833	17.71598	1640	cpm	soil	0.25
310825.879	1959659.85	-64.78390667	17.71598333	1550	cpm	soil	0.25
310823.051	1959659.88	-64.78393333	17.71598333	1660	cpm	soil	0.25
310820.397	1959659.72	-64.78395833	17.71598167	1630	cpm	soil	0.25
310817.92	1959659.56	-64.78398167	17.71598	1650	cpm	soil	0.25
310815.438	1959658.85	-64.784005	17.71597333	1730	cpm	soil	0.25
310812.781	1959658.32	-64.78403	17.71596833	1760	cpm	soil	0.25
310810.301	1959657.79	-64.78405333	17.71596333	1760	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
310804.98	1959655.99	-64.78410333	17.71594667	1680	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
310800.189	1959654.2	-64.78414833	17.71593	1680	cpm	soil	0.25
310797.88	1959653.11	-64.78417	17.71592	1940	cpm	soil	0.25
310795.571	1959652.03	-64.78419167	17.71591	1910	cpm	soil	0.25
310792.734	1959651.13	-64.78421833	17.71590167	1870	cpm	soil	0.25
310791.491	1959650.59	-64.78423	17.71589667	1730	cpm	soil	0.25
310787.409	1959648.97	-64.78426833	17.71588167	1700	cpm	soil	0.25
310761.965	1959613.23	-64.784505	17.71555667	2490	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
310762.287	1959609.91	-64.78450167	17.71552667	2370	cpm	soil	0.25
310762.791	1959607.14	-64.78449667	17.71550167	2380	cpm	soil	0.25
310763.479	1959605.1	-64.78449	17.71548333	2380	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310767.72	1959604.88	-64.78445	17.71548167	2180	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
310770.184	1959603.75	-64.78442667	17.71547167	1990	cpm	soil	0.25
310770.359	1959603.56	-64.784425	17.71547	1940	cpm	soil	0.25
310770.878	1959602.27	-64.78442	17.71545833	1980	cpm	soil	0.25
310770.878	1959602.27	-64.78442	17.71545833	1920	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
310773.129	1959597.26	-64.78439833	17.71541333	1930	cpm	soil	0.25
310773.643	1959595.6	-64.78439333	17.71539833	2140	cpm	soil	0.25
310774.841	1959591.34	-64.78438167	17.71536	2140	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
310778.35	1959588.54	-64.78434833	17.715335	1900	cpm	soil	0.25
310780.823	1959588.34	-64.784325	17.71533333	1870	cpm	soil	0.25
310783.122	1959588.31	-64.78430333	17.71533333	1870	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2230	cpm	soil	0.25
310839.223	1959594.05	-64.783775	17.71539	2200	cpm	soil	0.25
310836.039	1959593.9	-64.783805	17.71538833	1980	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
310829.673	1959593.78	-64.783865	17.71538667	2030	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	1880	cpm	soil	0.25
310825.831	1959598.79	-64.78390167	17.71543167	1730	cpm	soil	0.25
310825.871	1959603.04	-64.78390167	17.71547	1610	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310823.807	1959609.14	-64.78392167	17.715525	1610	cpm	soil	0.25
310822.395	1959609.34	-64.783935	17.71552667	1640	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
0*	0*	0*	0*	1630	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310810.667	1959603.18	-64.784045	17.71547	1670	cpm	soil	0.25
310810.3	1959601.71	-64.78404833	17.71545667	1650	cpm	soil	0.25
310811.499	1959597.64	-64.78403667	17.71542	1730	cpm	soil	0.25
310812.019	1959596.53	-64.78403167	17.71541	1620	cpm	soil	0.25
0*	0*	0*	0*	1680	cpm	soil	0.25
310811.074	1959590.08	-64.78404	17.71535167	1700	cpm	soil	0.25
310938.576	1959611.56	-64.78284	17.71555667	2150	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310932.76	1959613.46	-64.782895	17.71557333	2010	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
310924.302	1959616.49	-64.782975	17.7156	2120	cpm	soil	0.25
310922.711	1959616.51	-64.78299	17.7156	2230	cpm	soil	0.25
310918.125	1959617.66	-64.78303333	17.71561	2250	cpm	soil	0.25
310915.307	1959618.79	-64.78306	17.71562	2230	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
310909.679	1959621.98	-64.78311333	17.71564833	2360	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
310903.511	1959624.07	-64.78317167	17.71566667	2280	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
310897.868	1959625.6	-64.783225	17.71568	2240	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
310891.694	1959627.13	-64.78328333	17.71569333	2250	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
310885.872	1959628.48	-64.78333833	17.715705	2220	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
310878.997	1959630.57	-64.78340333	17.71572333	2120	cpm	soil	0.25
310854.459	1959653.31	-64.78363667	17.71592667	1410	cpm	soil	0.25
310857.279	1959652.36	-64.78361	17.71591833	1530	cpm	soil	0.25
310860.103	1959651.78	-64.78358333	17.71591333	1530	cpm	soil	0.25
0*	0*	0*	0*	1400	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310866.1	1959650.25	-64.78352667	17.7159	1480	cpm	soil	0.25
310867.88	1959651.52	-64.78351	17.71591167	1450	cpm	soil	0.25
310868.081	1959654.11	-64.78350833	17.715935	1490	cpm	soil	0.25
310866.154	1959655.97	-64.78352667	17.71595167	1460	cpm	soil	0.25
0*	0*	0*	0*	1390	cpm	soil	0.25
310860.341	1959658.24	-64.78358167	17.71597167	1430	cpm	soil	0.25
310857.164	1959658.82	-64.78361167	17.71597667	1430	cpm	soil	0.25
310854.34	1959659.4	-64.78363833	17.71598167	1510	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310851.337	1959659.61	-64.78366667	17.71598333	1690	cpm	soil	0.25
310846.57	1959660.4	-64.78371167	17.71599	1620	cpm	soil	0.25
310843.563	1959660.24	-64.78374	17.71598833	1510	cpm	soil	0.25
310840.561	1959660.64	-64.78376833	17.71599167	1330	cpm	soil	0.25
310838.989	1959662.68	-64.78378333	17.71601	1300	cpm	soil	0.25
310839.721	1959665.26	-64.78377667	17.71603333	1320	cpm	soil	0.25
310841.682	1959666.9	-64.78375833	17.71604833	1170	cpm	soil	0.25
310845.928	1959667.23	-64.78371833	17.71605167	1160	cpm	soil	0.25
0*	0*	0*	0*	1210	cpm	soil	0.25
310841.841	1959646.42	-64.783755	17.71586333	1950	cpm	soil	0.25
310838.664	1959647	-64.783785	17.71586833	1900	cpm	soil	0.25
310835.487	1959647.59	-64.783815	17.71587333	1940	cpm	soil	0.25
310833.014	1959647.8	-64.78383833	17.715875	2020	cpm	soil	0.25
310832.139	1959648.73	-64.78384667	17.71588333	2030	cpm	soil	0.25
310831.622	1959650.21	-64.78385167	17.71589667	1850	cpm	soil	0.25
310829.51	1959651.15	-64.78387167	17.715905	1780	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
310826.504	1959651.18	-64.7839	17.715905	1660	cpm	soil	0.25
310823.32	1959651.02	-64.78393	17.71590333	1660	cpm	soil	0.25
310821.374	1959650.86	-64.78394833	17.71590167	1560	cpm	soil	0.25
310819.427	1959650.69	-64.78396667	17.7159	1670	cpm	soil	0.25
310817.477	1959650.16	-64.783985	17.715895	1690	cpm	soil	0.25
310816.413	1959649.8	-64.783995	17.71589167	1680	cpm	soil	0.25
310813.404	1959649.46	-64.78402333	17.71588833	1720	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310810.394	1959648.93	-64.78405167	17.71588333	1540	cpm	soil	0.25
310807.731	1959647.85	-64.78407667	17.71587333	1470	cpm	soil	0.25
310805.605	1959647.32	-64.78409667	17.71586833	1600	cpm	soil	0.25
310803.303	1959646.97	-64.78411833	17.715865	1570	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
310800.467	1959646.26	-64.784145	17.71585833	1510	cpm	soil	0.25
310765.208	1959638.29	-64.78447667	17.71578333	1760	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
310773.541	1959640.8	-64.78439833	17.71580667	1770	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310779.044	1959643.14	-64.78434667	17.71582833	1500	cpm	soil	0.25
310782.06	1959644.22	-64.78431833	17.71583833	1420	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	1360	cpm	soil	0.25
310787.558	1959646.01	-64.78426667	17.715855	1280	cpm	soil	0.25
0*	0*	0*	0*	1290	cpm	soil	0.25
310793.228	1959647.25	-64.78421333	17.71586667	1270	cpm	soil	0.25
0*	0*	0*	0*	1430	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310801.209	1959649.94	-64.78413833	17.71589167	1860	cpm	soil	0.25
310803.868	1959650.66	-64.78411333	17.71589833	1930	cpm	soil	0.25
310806.704	1959651.37	-64.78408667	17.715905	1950	cpm	soil	0.25
310809.364	1959652.26	-64.78406167	17.71591333	1910	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
310814.855	1959653.32	-64.78401	17.71592333	1810	cpm	soil	0.25
310816.096	1959653.68	-64.78399833	17.71592667	1830	cpm	soil	0.25
310820.346	1959654.37	-64.78395833	17.71593333	1910	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310784.395	1959648.07	-64.78429667	17.71587333	1760	cpm	soil	0.25
310781.383	1959647.36	-64.784325	17.71586667	1780	cpm	soil	0.25
310778.544	1959646.28	-64.78435167	17.71585667	1650	cpm	soil	0.25
310775.528	1959645.2	-64.78438	17.71584667	1560	cpm	soil	0.25
310773.933	1959644.85	-64.784395	17.71584333	1450	cpm	soil	0.25
310771.453	1959644.32	-64.78441833	17.71583833	1480	cpm	soil	0.25
310768.623	1959644.16	-64.784445	17.71583667	1560	cpm	soil	0.25
310765.433	1959643.46	-64.784475	17.71583	1540	cpm	soil	0.25
310762.241	1959642.38	-64.784505	17.71582	1730	cpm	soil	0.25
310757.818	1959642.05	-64.78454667	17.71581667	1750	cpm	soil	0.25
310755.686	1959640.97	-64.78456667	17.71580667	1720	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
310755.49	1959638.94	-64.78456833	17.71578833	1680	cpm	soil	0.25
310755.665	1959638.75	-64.78456667	17.71578667	1650	cpm	soil	0.25
310755.665	1959638.75	-64.78456667	17.71578667	1630	cpm	soil	0.25
0*	0*	0*	0*	1680	cpm	soil	0.25
0*	0*	0*	0*	1660	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310755.129	1959638.2	-64.78457167	17.71578167	1670	cpm	soil	0.25
310754.417	1959637.66	-64.78457833	17.71577667	1740	cpm	soil	0.25
310754.056	1959636.92	-64.78458167	17.71577	1800	cpm	soil	0.25
310754.056	1959636.92	-64.78458167	17.71577	1880	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
310788.779	1959588.26	-64.78425	17.71533333	1880	cpm	soil	0.25
310793.372	1959587.85	-64.78420667	17.71533	1820	cpm	soil	0.25
310796.558	1959588.19	-64.78417667	17.71533333	1630	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
310802.756	1959589.23	-64.78411833	17.71534333	1470	cpm	soil	0.25
310805.759	1959589.02	-64.78409	17.71534167	1410	cpm	soil	0.25
310807.347	1959588.64	-64.784075	17.71533833	1400	cpm	soil	0.25
0*	0*	0*	0*	1350	cpm	soil	0.25
310815.295	1959587.82	-64.784	17.71533167	1390	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310818.828	1959587.42	-64.78396667	17.71532833	1550	cpm	soil	0.25
310822.19	1959587.76	-64.783935	17.71533167	1660	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
310828.745	1959589.17	-64.78387333	17.715345	1790	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310833.351	1959590.05	-64.78383	17.71535333	2000	cpm	soil	0.25
310834.413	1959590.23	-64.78382	17.715355	2220	cpm	soil	0.25
310835.652	1959590.4	-64.78380833	17.71535667	2100	cpm	soil	0.25
310838.838	1959590.74	-64.78377833	17.71536	2080	cpm	soil	0.25
310840.431	1959590.91	-64.78376333	17.71536167	2180	cpm	soil	0.25
310843.613	1959590.88	-64.78373333	17.71536167	2270	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
310810.183	1959589.35	-64.78404833	17.715345	1620	cpm	soil	0.25
310807.179	1959589.56	-64.78407667	17.71534667	1510	cpm	soil	0.25
310805.957	1959591.23	-64.78408833	17.71536167	1500	cpm	soil	0.25
310802.092	1959593.85	-64.784125	17.715385	1530	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
310797.849	1959593.89	-64.784165	17.715385	1550	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
310789.708	1959593.05	-64.78424167	17.71537667	1700	cpm	soil	0.25
310786.699	1959592.71	-64.78427	17.71537333	1810	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
310780.507	1959592.21	-64.78432833	17.71536833	1870	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
310776.085	1959592.07	-64.78437	17.71536667	1870	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
310774.347	1959595.22	-64.78438667	17.715395	2070	cpm	soil	0.25
310775.765	1959595.58	-64.78437333	17.71539833	2120	cpm	soil	0.25
310778.957	1959596.65	-64.78434333	17.71540833	2040	cpm	soil	0.25
310780.554	1959597.19	-64.78432833	17.71541333	1870	cpm	soil	0.25
310785.166	1959598.81	-64.784285	17.71542833	1800	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310794.9	1959599.82	-64.78419333	17.71543833	1920	cpm	soil	0.25
310772.047	1959613.69	-64.78441	17.71556167	1950	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
310769.631	1959619.99	-64.78443333	17.71561833	2200	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
310767.539	1959623.14	-64.78445333	17.71564667	1860	cpm	soil	0.25
310765.602	1959623.9	-64.78447167	17.71565333	1860	cpm	soil	0.25
310764.9	1959624.46	-64.78447833	17.71565833	1940	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310757.501	1959627.3	-64.78454833	17.71568333	1920	cpm	soil	0.25
310755.39	1959628.42	-64.78456833	17.71569333	1960	cpm	soil	0.25
310754.34	1959629.54	-64.78457833	17.71570333	1900	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310753.647	1959631.02	-64.784585	17.71571667	1760	cpm	soil	0.25
310752.785	1959633.43	-64.78459333	17.71573833	1680	cpm	soil	0.25
310751.746	1959635.65	-64.78460333	17.71575833	1720	cpm	soil	0.25
310751.576	1959636.39	-64.784605	17.715765	1670	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310800.219	1959601.43	-64.78414333	17.71545333	1820	cpm	soil	0.25
310800.947	1959603.64	-64.78413667	17.71547333	1690	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
310795.309	1959605.72	-64.78419	17.71549167	1620	cpm	soil	0.25
310793.713	1959605.19	-64.784205	17.71548667	1630	cpm	soil	0.25
310789.276	1959603.38	-64.78424667	17.71547	1650	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310783.601	1959601.59	-64.7843	17.71545333	1530	cpm	soil	0.25
0*	0*	0*	0*	1440	cpm	soil	0.25
310777.919	1959599.06	-64.78435333	17.71543	1480	cpm	soil	0.25
0*	0*	0*	0*	1480	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
310773.517	1959600.95	-64.784395	17.71544667	1500	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310772.644	1959602.06	-64.78440333	17.71545667	1660	cpm	soil	0.25
310772.651	1959602.8	-64.78440333	17.71546333	1580	cpm	soil	0.25
0*	0*	0*	0*	1560	cpm	soil	0.25
310772.85	1959605.2	-64.78440167	17.715485	1630	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
310772.707	1959608.7	-64.78440333	17.71551667	1860	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
			Minimum =	**1160**			
			Maximum =	**3440**			
			Median =	**1980**			
			Arithmetic mean =	**2045**			
			One Sigma =	**430**			
			Two Sigma =	**859**			

Average Background =	**5193.75**	**cpm**		
Background +/- One	**4597**	**to**	**5790**	**cpm**
Background +/- Two Sigma =	**4000**	**to**	**6387**	**cpm**

0* - GPS data not available

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311354.8765	1959884.338	-64.77894	17.71805667	1950	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1960	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1990	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1970	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1970	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1980	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1980	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1980	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2020	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2010	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1980	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2030	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2070	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2100	cpm	soil	0.25
311355.7535	1959883.592	-64.77893167	17.71805	2130	cpm	soil	0.25
311356.6287	1959882.662	-64.77892333	17.71804167	2110	cpm	soil	0.25
311357.6755	1959881.176	-64.77891333	17.71802833	2150	cpm	soil	0.25
311357.847	1959880.621	-64.77891167	17.71802333	2190	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
311357.8453	1959880.436	-64.77891167	17.71802167	2330	cpm	soil	0.25
311358.0203	1959880.25	-64.77891	17.71802	2400	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
311359.5887	1959877.837	-64.778895	17.71799833	2360	cpm	soil	0.25
311361.6858	1959875.235	-64.778875	17.717975	2310	cpm	soil	0.25
311363.0861	1959873.746	-64.77886167	17.71796167	2280	cpm	soil	0.25
311364.4847	1959872.072	-64.77884833	17.71794667	2320	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
311367.9786	1959867.612	-64.778815	17.71790667	2030	cpm	soil	0.25
311370.2541	1959865.192	-64.77879333	17.717885	1980	cpm	soil	0.25
311371.8295	1959863.517	-64.77877833	17.71787	1950	cpm	soil	0.25
311372.7047	1959862.586	-64.77877	17.71786167	1920	cpm	soil	0.25
311374.2801	1959860.911	-64.778755	17.71784667	1910	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
311374.8052	1959860.352	-64.77875	17.71784167	1940	cpm	soil	0.25
311374.8052	1959860.352	-64.77875	17.71784167	1880	cpm	soil	0.25
311374.8035	1959860.168	-64.77875	17.71784	1880	cpm	soil	0.25
311374.8035	1959860.168	-64.77875	17.71784	1870	cpm	soil	0.25
311376.0253	1959858.496	-64.77873833	17.717825	1820	cpm	soil	0.25
0*	0*	0*	0*	1780	cpm	soil	0.25
311379.3459	1959854.406	-64.77870667	17.71778833	1770	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
311382.845	1959850.499	-64.77867333	17.71775333	1680	cpm	soil	0.25
311384.2436	1959848.826	-64.77866	17.71773833	1660	cpm	soil	0.25
311384.4169	1959848.455	-64.77865833	17.717735	1640	cpm	soil	0.25
311384.4169	1959848.455	-64.77865833	17.717735	1650	cpm	soil	0.25
311384.4169	1959848.455	-64.77865833	17.717735	1610	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311384.4169	1959848.455	-64.77865833	17.717735	1630	cpm	soil	0.25
311384.9385	1959847.528	-64.77865333	17.71772667	1610	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
311387.0286	1959844.187	-64.77863333	17.71769667	1610	cpm	soil	0.25
311388.0701	1959842.148	-64.77862333	17.71767833	1570	cpm	soil	0.25
311388.59	1959841.037	-64.77861833	17.71766833	1560	cpm	soil	0.25
311388.9297	1959839.557	-64.778615	17.717655	1550	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1530	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1520	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1520	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1550	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1520	cpm	soil	0.25
311388.3749	1959836.98	-64.77862	17.71763167	1500	cpm	soil	0.25
311387.4701	1959834.775	-64.77862833	17.71761167	1480	cpm	soil	0.25
0*	0*	0*	0*	1450	cpm	soil	0.25
0*	0*	0*	0*	1460	cpm	soil	0.25
311382.6323	1959827.995	-64.77867333	17.71755	1490	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
311377.6387	1959823.43	-64.77872	17.71750833	1570	cpm	soil	0.25
311376.5676	1959822.333	-64.77873	17.71749833	1560	cpm	soil	0.25
311376.5676	1959822.333	-64.77873	17.71749833	1610	cpm	soil	0.25
311376.5676	1959822.333	-64.77873	17.71749833	1700	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311376.5676	1959822.333	-64.77873	17.71749833	1860	cpm	soil	0.25
311375.5016	1959821.79	-64.77874	17.71749333	1890	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
311373.3715	1959820.888	-64.77876	17.717485	1900	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
311371.7717	1959819.981	-64.778775	17.71747667	1870	cpm	soil	0.25
311370.7075	1959819.622	-64.778785	17.71747333	1910	cpm	soil	0.25
311366.6292	1959818.369	-64.77882333	17.71746167	1890	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311361.3168	1959817.497	-64.77887333	17.71745333	1810	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
311357.7776	1959817.161	-64.77890667	17.71745	1700	cpm	soil	0.25
311355.4777	1959816.998	-64.77892833	17.71744833	1640	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
311350.6957	1959816.121	-64.77897333	17.71744	1620	cpm	soil	0.25
311347.5153	1959816.336	-64.77900333	17.71744167	1650	cpm	soil	0.25
311346.4563	1959816.53	-64.77901333	17.71744333	1650	cpm	soil	0.25
311345.3956	1959816.54	-64.77902333	17.71744333	1640	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
311340.6259	1959816.954	-64.77906833	17.71744667	1670	cpm	soil	0.25
311337.9758	1959817.164	-64.77909333	17.71744833	1680	cpm	soil	0.25
311335.324	1959817.189	-64.77911833	17.71744833	1720	cpm	soil	0.25
311333.9115	1959817.387	-64.77913167	17.71745	1730	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	1700	cpm	soil	0.25
0*	0*	0*	0*	1680	cpm	soil	0.25
311324.2004	1959818.77	-64.77922333	17.71746167	1690	cpm	soil	0.25
311321.5556	1959819.533	-64.77924833	17.71746833	1710	cpm	soil	0.25
311320.3216	1959819.913	-64.77926	17.71747167	1700	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
311311.5119	1959823.133	-64.77934333	17.7175	1810	cpm	soil	0.25
311309.2259	1959824.446	-64.779365	17.71751167	1820	cpm	soil	0.25
311307.1149	1959825.573	-64.779385	17.71752167	1820	cpm	soil	0.25
311305.0057	1959826.884	-64.779405	17.71753333	1820	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311301.8462	1959829.312	-64.779435	17.717555	1830	cpm	soil	0.25
311299.9172	1959830.99	-64.77945333	17.71757	1810	cpm	soil	0.25
311297.1096	1959833.231	-64.77948	17.71759	1790	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
311294.1269	1959835.657	-64.77950833	17.71761167	1720	cpm	soil	0.25
311291.4978	1959838.08	-64.77953333	17.71763333	1690	cpm	soil	0.25
311289.9224	1959839.755	-64.77954833	17.71764833	1640	cpm	soil	0.25
311289.2222	1959840.5	-64.779555	17.717655	1610	cpm	soil	0.25
311288.5238	1959841.429	-64.77956167	17.71766333	1580	cpm	soil	0.25
311286.0749	1959844.219	-64.779585	17.71768833	1550	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
311286.6332	1959847.166	-64.77958	17.717715	1530	cpm	soil	0.25
311289.089	1959845.113	-64.77955667	17.71769667	1490	cpm	soil	0.25
311290.141	1959844.181	-64.77954667	17.71768833	1500	cpm	soil	0.25
311292.9452	1959841.572	-64.77952	17.717665	1500	cpm	soil	0.25
311294.8741	1959839.893	-64.77950167	17.71765	1500	cpm	soil	0.25
311296.4513	1959838.402	-64.77948667	17.71763667	1520	cpm	soil	0.25
311297.3282	1959837.656	-64.77947833	17.71763	1550	cpm	soil	0.25
311299.4322	1959835.792	-64.77945833	17.71761333	1600	cpm	soil	0.25
311302.5882	1959832.994	-64.77942833	17.71758833	1650	cpm	soil	0.25
311304.8707	1959831.313	-64.77940667	17.71757333	1680	cpm	soil	0.25
311306.9765	1959829.632	-64.77938667	17.71755833	1720	cpm	soil	0.25
311307.6801	1959829.257	-64.77938	17.717555	1830	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311307.8552	1959829.071	-64.77937833	17.71755333	1870	cpm	soil	0.25
311307.8552	1959829.071	-64.77937833	17.71755333	1880	cpm	soil	0.25
311309.7876	1959827.761	-64.77936	17.71754167	1950	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311313.1291	1959825.885	-64.77932833	17.717525	1920	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311319.4673	1959823.058	-64.77926833	17.7175	1860	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311324.7552	1959821.347	-64.77921833	17.717485	1830	cpm	soil	0.25
311327.4017	1959820.769	-64.77919333	17.71748	1830	cpm	soil	0.25
311328.8126	1959820.387	-64.77918	17.71747667	1820	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311332.6966	1959819.796	-64.77914333	17.71747167	1820	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311343.8202	1959818.215	-64.77903833	17.71745833	1780	cpm	soil	0.25
311346.6505	1959818.373	-64.77901167	17.71746	1780	cpm	soil	0.25
311349.4826	1959818.715	-64.778985	17.71746333	1740	cpm	soil	0.25
311352.3164	1959819.242	-64.77895833	17.71746833	1710	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
311357.6305	1959820.299	-64.77890833	17.71747833	1610	cpm	soil	0.25
311360.4643	1959820.825	-64.77888167	17.71748333	1610	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
311365.7836	1959822.435	-64.77883167	17.71749833	1620	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
311370.9383	1959825.338	-64.77878333	17.717525	1640	cpm	soil	0.25
311372.3595	1959826.063	-64.77877	17.71753167	1670	cpm	soil	0.25
311374.852	1959827.884	-64.77874667	17.71754833	1680	cpm	soil	0.25
311378.4139	1959830.617	-64.77871333	17.71757333	1710	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
311382.8666	1959834.08	-64.77867167	17.717605	1690	cpm	soil	0.25
311385.0038	1959835.721	-64.77865167	17.71762	1670	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
311387.5067	1959838.649	-64.77862833	17.71764667	1670	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
311389.3146	1959842.874	-64.77861167	17.717685	1600	cpm	soil	0.25
311388.0789	1959843.071	-64.77862333	17.71768667	1590	cpm	soil	0.25
311387.1897	1959842.526	-64.77863167	17.71768167	1590	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
311381.8478	1959838.518	-64.77868167	17.717645	1510	cpm	soil	0.25
311379.7106	1959836.877	-64.77870167	17.71763	1500	cpm	soil	0.25
311377.5735	1959835.237	-64.77872167	17.717615	1500	cpm	soil	0.25
311375.2579	1959833.414	-64.77874333	17.71759833	1520	cpm	soil	0.25
311374.0151	1959832.873	-64.778755	17.71759333	1500	cpm	soil	0.25
311371.3459	1959831.053	-64.77878	17.71757667	1520	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
311366.5517	1959828.885	-64.778825	17.71755667	1530	cpm	soil	0.25
311365.309	1959828.343	-64.77883667	17.71755167	1580	cpm	soil	0.25
311361.229	1959826.906	-64.778875	17.71753833	1620	cpm	soil	0.25
311358.3952	1959826.379	-64.77890167	17.71753333	1630	cpm	soil	0.25
311355.3828	1959825.67	-64.77893	17.71752667	1620	cpm	soil	0.25
311353.9668	1959825.499	-64.77894333	17.717525	1580	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
311348.1224	1959824.447	-64.77899833	17.717515	1600	cpm	soil	0.25
311343.8778	1959824.303	-64.77903833	17.71751333	1610	cpm	soil	0.25
311340.8724	1959824.331	-64.77906667	17.71751333	1590	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311332.2168	1959825.151	-64.77914833	17.71752	1620	cpm	soil	0.25
311329.3935	1959825.731	-64.779175	17.717525	1610	cpm	soil	0.25
311328.1595	1959826.112	-64.77918667	17.71752833	1620	cpm	soil	0.25
311323.9323	1959827.812	-64.77922667	17.71754333	1630	cpm	soil	0.25
311321.1142	1959828.945	-64.77925333	17.71755333	1670	cpm	soil	0.25
311318.4746	1959830.262	-64.77927833	17.717565	1730	cpm	soil	0.25
311315.6582	1959831.58	-64.779305	17.71757667	1790	cpm	soil	0.25
311313.0204	1959833.08	-64.77933	17.71759	1820	cpm	soil	0.25
311311.7898	1959833.83	-64.77934167	17.71759667	1850	cpm	soil	0.25
311309.152	1959835.331	-64.77936667	17.71761	1870	cpm	soil	0.25
311305.4639	1959837.948	-64.77940167	17.71763333	1850	cpm	soil	0.25
311303.1848	1959839.999	-64.77942333	17.71765167	1830	cpm	soil	0.25
311301.0826	1959842.048	-64.77944333	17.71767	1790	cpm	soil	0.25
311298.9803	1959844.097	-64.77946333	17.71768833	1750	cpm	soil	0.25
311297.2299	1959845.959	-64.77948	17.717705	1700	cpm	soil	0.25
0*	0*	0*	0*	1680	cpm	soil	0.25
311293.3755	1959849.685	-64.77951667	17.71773833	1640	cpm	soil	0.25
311291.9787	1959851.543	-64.77953	17.717755	1610	cpm	soil	0.25
311292.1642	1959852.463	-64.77952833	17.71776333	1600	cpm	soil	0.25
311294.4711	1959853.364	-64.77950667	17.71777167	1580	cpm	soil	0.25
311296.4018	1959851.87	-64.77948833	17.71775833	1540	cpm	soil	0.25
311297.6323	1959851.12	-64.77947667	17.71775167	1550	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
311302.7312	1959848.12	-64.77942833	17.717725	1560	cpm	soil	0.25
311306.5996	1959845.87	-64.77939167	17.717705	1600	cpm	soil	0.25
0*	0*	0*	0*	1660	cpm	soil	0.25
311311.6985	1959842.87	-64.77934333	17.71767833	1630	cpm	soil	0.25
311313.9828	1959841.373	-64.77932167	17.717665	1670	cpm	soil	0.25
311316.4456	1959840.058	-64.77929833	17.71765333	1710	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
311320.1424	1959838.363	-64.77926333	17.71763833	1690	cpm	soil	0.25
311323.8392	1959836.668	-64.77922833	17.71762333	1700	cpm	soil	0.25
311326.3055	1959835.722	-64.779205	17.717615	1710	cpm	soil	0.25
311327.7163	1959835.34	-64.77919167	17.71761167	1790	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
311333.3543	1959833.257	-64.77913833	17.71759333	1780	cpm	soil	0.25
311334.59	1959833.061	-64.77912667	17.71759167	1760	cpm	soil	0.25
311338.6526	1959832.654	-64.77908833	17.71758833	1800	cpm	soil	0.25
311341.4812	1959832.627	-64.77906167	17.71758833	1790	cpm	soil	0.25
311344.1348	1959832.786	-64.77903667	17.71759	1750	cpm	soil	0.25
311346.7865	1959832.761	-64.77901167	17.71759	1730	cpm	soil	0.25
311349.6186	1959833.103	-64.778985	17.71759333	1680	cpm	soil	0.25
311350.8579	1959833.276	-64.77897333	17.717595	1650	cpm	soil	0.25
311354.7524	1959833.793	-64.77893667	17.7176	1680	cpm	soil	0.25
311357.2326	1959834.323	-64.77891333	17.717605	1680	cpm	soil	0.25
311359.8931	1959835.22	-64.77888833	17.71761333	1680	cpm	soil	0.25
311361.1359	1959835.762	-64.77887667	17.71761833	1690	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311364.514	1959837.759	-64.778845	17.71763667	1690	cpm	soil	0.25
311367.0029	1959839.211	-64.77882167	17.71765	1650	cpm	soil	0.25
311368.2474	1959839.937	-64.77881	17.71765667	1640	cpm	soil	0.25
311370.7399	1959841.759	-64.77878667	17.71767333	1640	cpm	soil	0.25
311372.7002	1959843.4	-64.77876833	17.71768833	1660	cpm	soil	0.25
311375.9068	1959845.953	-64.77873833	17.71771167	1660	cpm	soil	0.25
311376.7994	1959846.867	-64.77873	17.71772	1650	cpm	soil	0.25
311380.006	1959849.419	-64.7787	17.71774333	1640	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
311382.6857	1959852.345	-64.778675	17.71777	1610	cpm	soil	0.25
311381.8052	1959852.723	-64.77868333	17.71777333	1590	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
311377.1931	1959851.106	-64.77872667	17.71775833	1550	cpm	soil	0.25
311375.0594	1959849.835	-64.77874667	17.71774667	1520	cpm	soil	0.25
311372.749	1959848.565	-64.77876833	17.717735	1520	cpm	soil	0.25
311371.5045	1959847.839	-64.77878	17.71772833	1560	cpm	soil	0.25
311367.9514	1959846.028	-64.77881333	17.71771167	1590	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
311362.6234	1959843.496	-64.77886333	17.71768833	1610	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
311357.8292	1959841.327	-64.77890833	17.71766833	1580	cpm	soil	0.25
311354.1045	1959840.071	-64.77894333	17.71765667	1640	cpm	soil	0.25
311351.4458	1959839.358	-64.77896833	17.71765	1690	cpm	soil	0.25
311348.7887	1959838.83	-64.77899333	17.717645	1720	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
311342.2442	1959838.523	-64.779055	17.71764167	1780	cpm	soil	0.25
311339.5941	1959838.732	-64.77908	17.71764333	1820	cpm	soil	0.25
311335.1814	1959839.512	-64.77912167	17.71765	1890	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311329.722	1959841.777	-64.77917333	17.71767	1950	cpm	soil	0.25
311327.0824	1959843.094	-64.77919833	17.71768167	1970	cpm	soil	0.25
311324.6231	1959844.777	-64.77922167	17.71769667	1980	cpm	soil	0.25
311321.8119	1959846.649	-64.77924833	17.71771333	2010	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
311317.0736	1959850.383	-64.77929333	17.71774667	2010	cpm	soil	0.25
311314.6195	1959852.62	-64.77931667	17.71776667	1990	cpm	soil	0.25
311313.746	1959853.735	-64.779325	17.71777667	1980	cpm	soil	0.25
311310.7686	1959856.715	-64.77935333	17.71780333	2000	cpm	soil	0.25
311309.8951	1959857.83	-64.77936167	17.71781333	2000	cpm	soil	0.25
311307.6178	1959860.065	-64.77938333	17.71783333	2030	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311305.1707	1959863.04	-64.77940667	17.71786	1910	cpm	soil	0.25
311305.897	1959865.062	-64.7794	17.71787833	1870	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311307.6544	1959863.939	-64.77938333	17.71786833	1830	cpm	soil	0.25
311309.4049	1959862.078	-64.77936667	17.71785167	1830	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311311.6839	1959860.027	-64.779345	17.71783333	1840	cpm	soil	0.25
311315.0149	1959857.044	-64.77931333	17.71780667	1840	cpm	soil	0.25
311317.294	1959854.993	-64.77929167	17.71778833	1870	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311321.5002	1959851.079	-64.77925167	17.71775333	1830	cpm	soil	0.25
311322.3754	1959850.148	-64.77924333	17.717745	1840	cpm	soil	0.25
311324.6579	1959848.466	-64.77922167	17.71773	1850	cpm	soil	0.25
311326.9422	1959846.969	-64.7792	17.71771667	1910	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311336.102	1959843.377	-64.77911333	17.717685	1960	cpm	soil	0.25
311340.1628	1959842.786	-64.779075	17.71768	1970	cpm	soil	0.25
311341.4003	1959842.774	-64.77906333	17.71768	1920	cpm	soil	0.25
311345.2931	1959843.106	-64.77902667	17.71768333	1890	cpm	soil	0.25
311347.9501	1959843.634	-64.77900167	17.71768833	1910	cpm	soil	0.25
311350.6106	1959844.532	-64.77897667	17.71769667	1920	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
311354.3388	1959846.157	-64.77894167	17.71771167	1900	cpm	soil	0.25
311357.8955	1959848.337	-64.77890833	17.71773167	1860	cpm	soil	0.25
311360.2094	1959849.975	-64.77888667	17.71774667	1830	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311363.416	1959852.528	-64.77885667	17.71777	1810	cpm	soil	0.25
311365.3763	1959854.169	-64.77883833	17.717785	1780	cpm	soil	0.25
311368.4078	1959856.908	-64.77881	17.71781	1780	cpm	soil	0.25
311370.727	1959859.1	-64.77878833	17.71783	1740	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
311373.4136	1959862.764	-64.77876333	17.71786333	1720	cpm	soil	0.25
311372.1831	1959863.513	-64.778775	17.71787	1720	cpm	soil	0.25
311369.5243	1959862.801	-64.7788	17.71786333	1690	cpm	soil	0.25
311367.5657	1959861.343	-64.77881833	17.71785	1660	cpm	soil	0.25
311366.498	1959860.615	-64.77882833	17.71784333	1660	cpm	soil	0.25
311363.2915	1959858.063	-64.77885833	17.71782	1670	cpm	soil	0.25
311362.4006	1959857.334	-64.77886667	17.71781333	1690	cpm	soil	0.25
311359.1923	1959854.597	-64.77889667	17.71778833	1730	cpm	soil	0.25
311357.0569	1959853.141	-64.77891667	17.717775	1760	cpm	soil	0.25
311354.5679	1959851.689	-64.77894	17.71776167	1740	cpm	soil	0.25
311353.5002	1959850.961	-64.77895	17.717755	1780	cpm	soil	0.25
311349.422	1959849.708	-64.77898833	17.71774333	1850	cpm	soil	0.25
311346.7649	1959849.18	-64.77901333	17.71773833	1910	cpm	soil	0.25
311345.1739	1959849.195	-64.77902833	17.71773833	1940	cpm	soil	0.25
311342.3453	1959849.222	-64.779055	17.71773833	1930	cpm	soil	0.25
311337.9274	1959849.448	-64.77909667	17.71774	1890	cpm	soil	0.25
311335.1058	1959850.212	-64.77912333	17.71774667	1940	cpm	soil	0.25
311332.2877	1959851.346	-64.77915	17.71775667	1950	cpm	soil	0.25
311330.8803	1959852.097	-64.77916333	17.71776333	1940	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311327.012	1959854.347	-64.7792	17.71778333	1950	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311323.3239	1959856.965	-64.779235	17.71780667	1930	cpm	soil	0.25
311321.0448	1959859.016	-64.77925667	17.717825	1920	cpm	soil	0.25
311317.8906	1959861.997	-64.77928667	17.71785167	1950	cpm	soil	0.25
311317.0154	1959862.928	-64.779295	17.71786	2030	cpm	soil	0.25
311314.3897	1959865.72	-64.77932	17.717885	2010	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311311.9566	1959870.17	-64.77934333	17.717925	1940	cpm	soil	0.25
311313.2063	1959871.45	-64.77933167	17.71793667	1950	cpm	soil	0.25
311314.9654	1959870.511	-64.779315	17.71792833	1890	cpm	soil	0.25
311317.7679	1959867.717	-64.77928833	17.71790333	1860	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
311320.5668	1959864.555	-64.77926167	17.717875	1920	cpm	soil	0.25
311323.1837	1959860.84	-64.77923667	17.71784167	1960	cpm	soil	0.25
311324.7539	1959858.612	-64.77922167	17.71782167	1940	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311327.3795	1959855.82	-64.77919667	17.71779667	1970	cpm	soil	0.25
311330.1871	1959853.58	-64.77917	17.71777667	1960	cpm	soil	0.25
311332.2981	1959852.453	-64.77915	17.71776667	1990	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
311337.7593	1959850.372	-64.77909833	17.71774833	1990	cpm	soil	0.25
311340.2308	1959849.98	-64.779075	17.717745	2030	cpm	soil	0.25
311343.9451	1959850.129	-64.77904	17.71774667	2000	cpm	soil	0.25
311345.3611	1959850.3	-64.77902667	17.71774833	2030	cpm	soil	0.25
311349.0823	1959851.187	-64.77899167	17.71775667	2040	cpm	soil	0.25
311351.3875	1959851.903	-64.77897	17.71776333	2090	cpm	soil	0.25
311353.1624	1959852.624	-64.77895333	17.71777	2120	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311358.3293	1959856.819	-64.778905	17.71780833	2080	cpm	soil	0.25
311359.2219	1959857.733	-64.77889667	17.71781667	2080	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
311363.6869	1959862.487	-64.778855	17.71786	2030	cpm	soil	0.25
311364.9383	1959863.951	-64.77884333	17.71787333	1960	cpm	soil	0.25
311366.7219	1959865.594	-64.77882667	17.71788833	1930	cpm	soil	0.25
311367.6145	1959866.508	-64.77881833	17.71789667	1850	cpm	soil	0.25
311368.6892	1959867.974	-64.77880833	17.71791	1790	cpm	soil	0.25
311367.1156	1959869.833	-64.77882333	17.71792667	1750	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
311363.3752	1959866.917	-64.77885833	17.7179	1710	cpm	soil	0.25
311361.7667	1959865.088	-64.77887333	17.71788333	1740	cpm	soil	0.25
311360.1582	1959863.258	-64.77888833	17.71786667	1780	cpm	soil	0.25
311359.2655	1959862.344	-64.77889667	17.71785833	1820	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311357.657	1959860.515	-64.77891167	17.71784167	1880	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2110	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2180	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2170	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2130	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2110	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2120	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2210	cpm	soil	0.25
311354.4522	1959858.147	-64.77894167	17.71782	2210	cpm	soil	0.25
311351.965	1959856.879	-64.778965	17.71780833	2270	cpm	soil	0.25
311350.5454	1959856.339	-64.77897833	17.71780333	2320	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311346.1188	1959855.643	-64.77902	17.71779667	2380	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
311344.8796	1959855.47	-64.77903167	17.717795	2370	cpm	soil	0.25
311342.0527	1959855.681	-64.77905833	17.71779667	2380	cpm	soil	0.25
311339.4079	1959856.444	-64.77908333	17.71780333	2340	cpm	soil	0.25
311336.7631	1959857.207	-64.77910833	17.71781	2420	cpm	soil	0.25
311334.2968	1959858.153	-64.77913167	17.71781833	2440	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
311330.9588	1959860.398	-64.77916333	17.71783833	2520	cpm	soil	0.25
311327.8028	1959863.195	-64.77919333	17.71786333	2450	cpm	soil	0.25
311325.8756	1959865.058	-64.77921167	17.71788	2400	cpm	soil	0.25
311324.6555	1959866.914	-64.77922333	17.71789667	2430	cpm	soil	0.25
311323.2604	1959868.957	-64.77923667	17.717915	2390	cpm	soil	0.25
311322.2172	1959870.811	-64.77924667	17.71793167	2360	cpm	soil	0.25
311320.647	1959873.04	-64.77926167	17.71795167	2290	cpm	soil	0.25
311319.7823	1959875.077	-64.77927	17.71797	2240	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311321.2122	1959876.724	-64.77925667	17.717985	2170	cpm	soil	0.25
311321.9159	1959876.348	-64.77925	17.71798167	2130	cpm	soil	0.25
311321.9159	1959876.348	-64.77925	17.71798167	2110	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311324.0216	1959874.668	-64.77923	17.71796667	2170	cpm	soil	0.25
311326.1169	1959871.881	-64.77921	17.71794167	2210	cpm	soil	0.25
311326.9904	1959870.766	-64.77920167	17.71793167	2260	cpm	soil	0.25
311328.564	1959868.907	-64.77918667	17.717915	2270	cpm	soil	0.25
311331.0111	1959865.932	-64.77916333	17.71788833	2320	cpm	soil	0.25
311332.7633	1959864.255	-64.77914667	17.71787333	2450	cpm	soil	0.25
311334.3422	1959862.949	-64.77913167	17.71786167	2560	cpm	soil	0.25
311337.1585	1959861.631	-64.779105	17.71785	2600	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311339.6266	1959860.869	-64.77908167	17.71784333	2590	cpm	soil	0.25
311342.0981	1959860.477	-64.77905833	17.71784	2640	cpm	soil	0.25
311343.3356	1959860.465	-64.77904667	17.71784	2590	cpm	soil	0.25
311345.9891	1959860.625	-64.77902167	17.71784167	2690	cpm	soil	0.25
311349.3637	1959862.253	-64.77899	17.71785667	2800	cpm	soil	0.25
311351.1473	1959863.897	-64.77897333	17.71787167	2770	cpm	soil	0.25
311352.7575	1959865.911	-64.77895833	17.71789	2740	cpm	soil	0.25
311353.6502	1959866.825	-64.77895	17.71789833	2720	cpm	soil	0.25
311355.9798	1959870.123	-64.77892833	17.71792833	2700	cpm	soil	0.25
311357.7686	1959872.32	-64.77891167	17.71794833	2590	cpm	soil	0.25
311359.2038	1959874.52	-64.77889833	17.71796833	2480	cpm	soil	0.25
0*	0*	0*	0*	2380	cpm	soil	0.25
311359.405	1959877.101	-64.77889667	17.71799167	2300	cpm	soil	0.25
311356.5572	1959875.099	-64.77892333	17.71797333	2330	cpm	soil	0.25
311354.9435	1959872.716	-64.77893833	17.71795167	2330	cpm	soil	0.25
311353.3315	1959870.517	-64.77895333	17.71793167	2320	cpm	soil	0.25
311351.7195	1959868.319	-64.77896833	17.71791167	2350	cpm	soil	0.25
311351.0036	1959867.403	-64.778975	17.71790333	2480	cpm	soil	0.25
311348.681	1959864.842	-64.77899667	17.71788	2490	cpm	soil	0.25
0*	0*	0*	0*	2530	cpm	soil	0.25
311343.535	1959862.862	-64.779045	17.71786167	2610	cpm	soil	0.25
311340.3511	1959862.707	-64.779075	17.71786	2630	cpm	soil	0.25
311338.7636	1959863.091	-64.77909	17.71786333	2700	cpm	soil	0.25
311335.2522	1959865.707	-64.77912333	17.71788667	2690	cpm	soil	0.25
0*	0*	0*	0*	2720	cpm	soil	0.25
311333.15	1959867.756	-64.77914333	17.717905	2750	cpm	soil	0.25
311329.8207	1959870.924	-64.779175	17.71793333	2750	cpm	soil	0.25
311328.0703	1959872.785	-64.77919167	17.71795	2730	cpm	soil	0.25
311326.4949	1959874.46	-64.77920667	17.717965	2660	cpm	soil	0.25
311324.7497	1959876.875	-64.77922333	17.71798667	2550	cpm	soil	0.25
311324.0548	1959878.173	-64.77923	17.71799833	2500	cpm	soil	0.25
311324.9683	1959881.301	-64.77922167	17.71802667	2500	cpm	soil	0.25
311327.0793	1959880.174	-64.77920167	17.71801667	2560	cpm	soil	0.25
311329.0065	1959878.311	-64.77918333	17.718	2500	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
311332.3219	1959873.667	-64.77915167	17.71795833	2540	cpm	soil	0.25
311334.0671	1959871.253	-64.779135	17.71793667	2520	cpm	soil	0.25
311335.1173	1959870.136	-64.779125	17.71792667	2550	cpm	soil	0.25
311337.7551	1959868.635	-64.7791	17.71791333	2590	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
311344.6603	1959869.677	-64.779035	17.71792333	2600	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
311348.0471	1959872.596	-64.77900333	17.71795	2680	cpm	soil	0.25
311351.0786	1959875.335	-64.778975	17.717975	2680	cpm	soil	0.25
0*	0*	0*	0*	2690	cpm	soil	0.25
311355.3546	1959878.8	-64.778935	17.71800667	2630	cpm	soil	0.25
311356.4327	1959880.634	-64.778925	17.71802333	2690	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2630	cpm	soil	0.25
311353.4204	1959879.925	-64.77895333	17.71801667	2650	cpm	soil	0.25
311350.0336	1959877.005	-64.778985	17.71799	2700	cpm	soil	0.25
311347.7179	1959875.182	-64.77900667	17.71797333	2750	cpm	soil	0.25
311346.4717	1959874.272	-64.77901833	17.717965	2740	cpm	soil	0.25
311342.74	1959872.278	-64.77905333	17.71794667	2740	cpm	soil	0.25
311339.5614	1959872.677	-64.77908333	17.71795	2770	cpm	soil	0.25
311336.7485	1959874.364	-64.77911	17.717965	2790	cpm	soil	0.25
311334.2927	1959876.416	-64.77913333	17.71798333	2750	cpm	soil	0.25
311332.0154	1959878.651	-64.779155	17.71800333	2740	cpm	soil	0.25
311329.9166	1959881.069	-64.779175	17.718025	2690	cpm	soil	0.25
311328.5232	1959883.296	-64.77918833	17.718045	2630	cpm	soil	0.25
311329.9515	1959884.759	-64.779175	17.71805833	2580	cpm	soil	0.25
311331.8857	1959883.633	-64.77915667	17.71804833	2540	cpm	soil	0.25
311333.1144	1959882.699	-64.779145	17.71804	2540	cpm	soil	0.25
311336.0902	1959879.535	-64.77911667	17.71801167	2520	cpm	soil	0.25
311337.1404	1959878.418	-64.77910667	17.71800167	2550	cpm	soil	0.25
311339.2409	1959876.185	-64.77908667	17.71798167	2600	cpm	soil	0.25
311343.1285	1959875.963	-64.77905	17.71798	2670	cpm	soil	0.25
311344.5515	1959876.872	-64.77903667	17.71798833	2610	cpm	soil	0.25
311348.1134	1959879.606	-64.77900333	17.71801333	2650	cpm	soil	0.25
311349.3596	1959880.517	-64.77899167	17.71802167	2700	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
311353.2802	1959883.8	-64.778955	17.71805167	2550	cpm	soil	0.25
311352.587	1959885.282	-64.77896167	17.718065	2490	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
311347.2451	1959881.274	-64.77901167	17.71802833	2600	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
0*	0*	0*	0*	2500	cpm	soil	0.25
311339.2653	1959878.767	-64.77908667	17.718005	2510	cpm	soil	0.25
311336.806	1959880.451	-64.77911	17.71802	2550	cpm	soil	0.25
311334.527	1959882.502	-64.77913167	17.71803833	2510	cpm	soil	0.25
311332.423	1959884.366	-64.77915167	17.718055	2490	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
311333.5046	1959886.57	-64.77914167	17.718075	2380	cpm	soil	0.25
311336.8409	1959884.14	-64.77911	17.71805333	2360	cpm	soil	0.25
311339.1269	1959882.827	-64.77908833	17.71804167	2490	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
311344.6125	1959883.329	-64.77903667	17.71804667	2650	cpm	soil	0.25
0*	0*	0*	0*	2720	cpm	soil	0.25
311349.4154	1959886.419	-64.77899167	17.718075	2620	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311345.7029	1959886.454	-64.77902667	17.718075	2450	cpm	soil	0.25
311343.3907	1959885	-64.77904833	17.71806167	2480	cpm	soil	0.25
311340.3888	1959885.398	-64.77907667	17.718065	2530	cpm	soil	0.25
311339.1583	1959886.147	-64.77908833	17.71807167	2500	cpm	soil	0.25
311336.7077	1959888.753	-64.77911167	17.718095	2520	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2510	cpm	soil	0.25
311339.7166	1959889.094	-64.77908333	17.71809833	2450	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
311344.6596	1959888.309	-64.77903667	17.71809167	2490	cpm	soil	0.25
311346.795	1959889.765	-64.77901667	17.718105	2560	cpm	soil	0.25
311347.8627	1959890.492	-64.77900667	17.71811167	2580	cpm	soil	0.25
311346.9892	1959891.608	-64.779015	17.71812167	2520	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
311344.5055	1959890.709	-64.77903833	17.71811333	2660	cpm	soil	0.25
311340.1033	1959892.595	-64.77908	17.71813	2670	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
311344.8852	1959893.472	-64.779035	17.71813833	2660	cpm	soil	0.25
311345.9424	1959893.093	-64.779025	17.718135	2690	cpm	soil	0.25
311346.9979	1959892.53	-64.779015	17.71813	2630	cpm	soil	0.25
311350.1591	1959890.286	-64.778985	17.71811	2550	cpm	soil	0.25
311351.7362	1959888.796	-64.77897	17.71809667	2450	cpm	soil	0.25
311352.6132	1959888.049	-64.77896167	17.71809	2390	cpm	soil	0.25
311353.1348	1959887.122	-64.77895667	17.71808167	2370	cpm	soil	0.25
			Minimum =	**1450**			
			Maximum =	**2800**			
			Median =	**1890**			
			Arithmetic mean =	**1992**			
			One Sigma =	**373**			
			Two Sigma =	**746**			

Average Background =	**5193.75**	**cpm**		
Background +/- One Sigma	**4597**	**to**	**5790**	**cpm**
Background +/- Two Sigma	**4000**	**to**	**6387**	**cpm**

0* - GPS data not available

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311287.9077	1959738.865	-64.77955833	17.71673667	2250	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
311287.7291	1959738.682	-64.77956	17.716735	1990	cpm	soil	0.25
311287.7291	1959738.682	-64.77956	17.716735	2030	cpm	soil	0.25
311287.7291	1959738.682	-64.77956	17.716735	2090	cpm	soil	0.25
311288.2612	1959738.862	-64.779555	17.71673667	2170	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
311290.2286	1959741.241	-64.77953667	17.71675833	2270	cpm	soil	0.25
311290.4123	1959741.978	-64.779535	17.716765	2310	cpm	soil	0.25
311290.9636	1959744.186	-64.77953	17.716785	2330	cpm	soil	0.25
311291.7004	1959747.315	-64.77952333	17.71681333	2210	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311293.3316	1959751.543	-64.77950833	17.71685167	2160	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311295.3146	1959755.583	-64.77949	17.71688833	2330	cpm	soil	0.25
311296.5696	1959757.416	-64.77947833	17.716905	2140	cpm	soil	0.25
311297.6495	1959759.435	-64.77946833	17.71692333	1980	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
311299.8093	1959763.473	-64.77944833	17.71696	2100	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311299.8093	1959763.473	-64.77944833	17.71696	2130	cpm	soil	0.25
311299.8093	1959763.473	-64.77944833	17.71696	1990	cpm	soil	0.25
311299.9931	1959764.209	-64.77944667	17.71696667	1980	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
311303.0543	1959770.083	-64.77941833	17.71702	2130	cpm	soil	0.25
311304.1342	1959772.102	-64.77940833	17.71703833	2270	cpm	soil	0.25
311305.5676	1959774.118	-64.779395	17.71705667	2250	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311307.7327	1959778.709	-64.779375	17.71709833	1930	cpm	soil	0.25
311308.452	1959779.994	-64.77936833	17.71711	1940	cpm	soil	0.25
311309.8977	1959783.301	-64.779355	17.71714	2110	cpm	soil	0.25
311310.9776	1959785.32	-64.779345	17.71715833	2020	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311312.6001	1959788.625	-64.77933	17.71718833	2120	cpm	soil	0.25
311314.0475	1959792.117	-64.77931667	17.71722	1910	cpm	soil	0.25
311315.3042	1959794.134	-64.779305	17.71723833	1990	cpm	soil	0.25
311316.2091	1959796.339	-64.77929667	17.71725833	2120	cpm	soil	0.25
311317.2907	1959798.543	-64.77928667	17.71727833	2180	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
311320.1681	1959803.681	-64.77926	17.717325	2310	cpm	soil	0.25
311321.9639	1959806.615	-64.77924333	17.71735167	2290	cpm	soil	0.25
311322.8705	1959809.005	-64.779235	17.71737333	2250	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311323.7719	1959810.841	-64.77922667	17.71739	2240	cpm	soil	0.25
311324.3162	1959812.312	-64.77922167	17.71740333	2140	cpm	soil	0.25
311325.5659	1959813.592	-64.77921	17.717415	2160	cpm	soil	0.25
311327.6891	1959813.756	-64.77919	17.71741667	1820	cpm	soil	0.25
311329.0929	1959812.636	-64.77917667	17.71740667	1730	cpm	soil	0.25
311328.8952	1959810.424	-64.77917833	17.71738667	1710	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
311327.2745	1959807.303	-64.77919333	17.71735833	1730	cpm	soil	0.25
311325.6485	1959803.629	-64.77920833	17.717325	1880	cpm	soil	0.25
311324.7402	1959801.055	-64.77921667	17.71730167	2010	cpm	soil	0.25
311323.8318	1959798.481	-64.779225	17.71727833	2200	cpm	soil	0.25
311322.5734	1959796.279	-64.77923667	17.71725833	2200	cpm	soil	0.25
311322.0308	1959794.993	-64.77924167	17.71724667	2210	cpm	soil	0.25
311320.2316	1959791.689	-64.77925833	17.71721667	2220	cpm	soil	0.25
311319.1517	1959789.67	-64.77926833	17.71719833	2270	cpm	soil	0.25
311318.6126	1959788.753	-64.77927333	17.71719	2240	cpm	soil	0.25
311317.5222	1959785.627	-64.77928333	17.71716167	2130	cpm	soil	0.25
311316.7976	1959783.789	-64.77929	17.717145	2120	cpm	soil	0.25
311315.5375	1959781.403	-64.77930167	17.71712333	2150	cpm	soil	0.25
311314.6326	1959779.198	-64.77931	17.71710333	2050	cpm	soil	0.25
311313.5509	1959776.994	-64.77932	17.71708333	1870	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
311311.9285	1959773.689	-64.779335	17.71705333	1980	cpm	soil	0.25
311310.306	1959770.384	-64.77935	17.71702333	1850	cpm	soil	0.25
311309.4011	1959768.178	-64.77935833	17.71700333	1840	cpm	soil	0.25
311308.8603	1959767.077	-64.77936333	17.71699333	1860	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
311306.333	1959761.566	-64.77938667	17.71694333	1760	cpm	soil	0.25
311305.0798	1959759.918	-64.77939833	17.71692833	1880	cpm	soil	0.25
311304.7157	1959758.814	-64.77940167	17.71691833	2000	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311302.7257	1959754.037	-64.77942	17.716875	1920	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
311300.1932	1959747.973	-64.77944333	17.71682	1860	cpm	soil	0.25
311299.4756	1959746.873	-64.77945	17.71681	1900	cpm	soil	0.25
311297.6763	1959743.569	-64.77946667	17.71678	2030	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
311295.8753	1959740.081	-64.77948333	17.71674833	2210	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
311293.0031	1959735.496	-64.77951	17.71670667	2360	cpm	soil	0.25
311293.1502	1959732.359	-64.77950833	17.71667833	2350	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
311295.445	1959731.968	-64.77948667	17.716675	2410	cpm	soil	0.25
311297.7676	1959734.529	-64.779465	17.71669833	2480	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
311299.3901	1959737.834	-64.77945	17.71672833	2270	cpm	soil	0.25
311299.9362	1959739.489	-64.779445	17.71674333	2160	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
0*	0*	0*	0*	2260	cpm	soil	0.25
311299.9362	1959739.489	-64.779445	17.71674333	2330	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
0*	0*	0*	0*	2360	cpm	soil	0.25
311299.9362	1959739.489	-64.779445	17.71674333	2400	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
311300.2985	1959740.408	-64.77944167	17.71675167	2330	cpm	soil	0.25
311300.6625	1959741.512	-64.77943833	17.71676167	2650	cpm	soil	0.25
311301.9314	1959744.82	-64.77942667	17.71679167	2530	cpm	soil	0.25
311303.1881	1959746.838	-64.779415	17.71681	2540	cpm	soil	0.25
311304.2697	1959749.041	-64.779405	17.71683	2400	cpm	soil	0.25
311304.8071	1959749.774	-64.7794	17.71683667	2330	cpm	soil	0.25
311305.5334	1959751.796	-64.77939333	17.716855	2180	cpm	soil	0.25
311306.6273	1959755.291	-64.77938333	17.71688667	2260	cpm	soil	0.25
311307.7107	1959757.679	-64.77937333	17.71690833	2170	cpm	soil	0.25
311308.43	1959758.964	-64.77936667	17.71692	2150	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
311312.3995	1959767.412	-64.77933	17.71699667	1980	cpm	soil	0.25
311312.9404	1959768.514	-64.779325	17.71700667	2000	cpm	soil	0.25
311314.3895	1959772.19	-64.77931167	17.71704	2140	cpm	soil	0.25
311315.2944	1959774.395	-64.77930333	17.71706	1940	cpm	soil	0.25
311315.6602	1959775.683	-64.7793	17.71707167	1930	cpm	soil	0.25
311317.1076	1959779.174	-64.77928667	17.71710333	1840	cpm	soil	0.25
311317.6484	1959780.276	-64.77928167	17.71711333	1960	cpm	soil	0.25
311319.6314	1959784.316	-64.77926333	17.71715	1890	cpm	soil	0.25
311320.7148	1959786.704	-64.77925333	17.71717167	1940	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311322.3373	1959790.009	-64.77923833	17.71720167	2280	cpm	soil	0.25
311324.1366	1959793.313	-64.77922167	17.71723167	2200	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
311325.9358	1959796.616	-64.779205	17.71726167	2180	cpm	soil	0.25
311327.1995	1959799.371	-64.77919333	17.71728667	2140	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311329.0057	1959803.413	-64.77917667	17.71732333	2310	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311329.9193	1959806.54	-64.77916833	17.71735167	1890	cpm	soil	0.25
311330.4671	1959808.38	-64.77916333	17.71736833	1850	cpm	soil	0.25
311331.7168	1959809.659	-64.77915167	17.71738	1780	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
311333.6283	1959806.136	-64.77913333	17.71734833	1780	cpm	soil	0.25
311332.7217	1959803.747	-64.77914167	17.71732667	1570	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
311330.9172	1959799.89	-64.77915833	17.71729167	1700	cpm	soil	0.25
311330.0106	1959797.5	-64.77916667	17.71727	1840	cpm	soil	0.25
311329.4681	1959796.214	-64.77917167	17.71725833	1960	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311327.4868	1959792.359	-64.77919	17.71722333	2120	cpm	soil	0.25
311326.0498	1959789.974	-64.77920333	17.71720167	2200	cpm	soil	0.25
311325.5125	1959789.241	-64.77920833	17.717195	2140	cpm	soil	0.25
311324.0703	1959786.303	-64.77922167	17.71716833	2030	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311321.9087	1959782.08	-64.77924167	17.71713	2610	cpm	soil	0.25
311321.1911	1959780.98	-64.77924833	17.71712	2660	cpm	soil	0.25
311320.1112	1959778.961	-64.77925833	17.71710167	2310	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
311317.759	1959773.265	-64.77928	17.71705	2220	cpm	soil	0.25
311317.3949	1959772.161	-64.77928333	17.71704	2180	cpm	soil	0.25
311316.1295	1959769.222	-64.779295	17.71701333	2120	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311313.4132	1959762.422	-64.77932	17.71695167	2030	cpm	soil	0.25
311311.7855	1959758.563	-64.779335	17.71691667	1990	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
311309.4349	1959753.051	-64.77935667	17.71686667	1950	cpm	soil	0.25
311307.6357	1959749.747	-64.77937333	17.71683667	2000	cpm	soil	0.25
311307.0966	1959748.83	-64.77937833	17.71682833	2080	cpm	soil	0.25
311305.4741	1959745.525	-64.77939333	17.71679833	2150	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
311303.1236	1959740.013	-64.779415	17.71674833	2240	cpm	soil	0.25
311302.0384	1959737.44	-64.779425	17.716725	2230	cpm	soil	0.25
311300.2252	1959732.661	-64.77944167	17.71668167	2320	cpm	soil	0.25
311299.6844	1959731.559	-64.77944667	17.71667167	2270	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
311298.594	1959728.433	-64.77945667	17.71664333	2230	cpm	soil	0.25
311296.7843	1959724.023	-64.77947333	17.71660333	2430	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
311301.7256	1959723.054	-64.77942667	17.716595	2340	cpm	soil	0.25
311305.4678	1959726.155	-64.77939167	17.71662333	2360	cpm	soil	0.25
311307.0763	1959727.984	-64.77937667	17.71664	2440	cpm	soil	0.25
311307.2636	1959729.089	-64.779375	17.71665	2480	cpm	soil	0.25
311306.7576	1959731.677	-64.77938	17.71667333	2650	cpm	soil	0.25
311306.2499	1959734.08	-64.779385	17.716695	2570	cpm	soil	0.25
311306.6279	1959736.659	-64.77938167	17.71671833	2470	cpm	soil	0.25
311307.531	1959738.68	-64.77937333	17.71673667	2520	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
311307.5345	1959739.049	-64.77937333	17.71674	2770	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
311309.5088	1959742.166	-64.779355	17.71676833	2280	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311311.6686	1959746.204	-64.779335	17.716805	2270	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
0*	0*	0*	0*	2220	cpm	soil	0.25
311313.6499	1959750.059	-64.77931667	17.71684	2180	cpm	soil	0.25
311314.9084	1959752.261	-64.779305	17.71686	2290	cpm	soil	0.25
311315.4509	1959753.548	-64.7793	17.71687167	2260	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311319.9421	1959761.069	-64.77925833	17.71694	2120	cpm	soil	0.25
311321.0237	1959763.272	-64.77924833	17.71696	2060	cpm	soil	0.25
311321.5663	1959764.558	-64.77924333	17.71697167	2180	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
311324.7938	1959769.324	-64.77921333	17.717015	2160	cpm	soil	0.25
311326.0505	1959771.342	-64.77920167	17.71703333	2120	cpm	soil	0.25
311326.9536	1959773.362	-64.77919333	17.71705167	2100	cpm	soil	0.25
311328.3853	1959775.194	-64.77918	17.71706833	1960	cpm	soil	0.25
311329.642	1959777.211	-64.77916833	17.71708667	2070	cpm	soil	0.25
311330.7254	1959779.599	-64.77915833	17.71710833	2250	cpm	soil	0.25
311331.9839	1959781.801	-64.77914667	17.71712833	2440	cpm	soil	0.25
311333.0672	1959784.189	-64.77913667	17.71715	2470	cpm	soil	0.25
0*	0*	0*	0*	2500	cpm	soil	0.25
311334.1646	1959788.052	-64.77912667	17.717185	2330	cpm	soil	0.25
311335.0677	1959790.073	-64.77911833	17.71720333	2400	cpm	soil	0.25
311335.7975	1959792.464	-64.77911167	17.717225	2620	cpm	soil	0.25
311336.7111	1959795.592	-64.77910333	17.71725333	2630	cpm	soil	0.25
0*	0*	0*	0*	2690	cpm	soil	0.25
311337.798	1959798.349	-64.77909333	17.71727833	2500	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311340.3288	1959804.228	-64.77907	17.71733167	1970	cpm	soil	0.25
311340.8748	1959805.883	-64.779065	17.71734667	1800	cpm	soil	0.25
311341.0551	1959806.251	-64.77906333	17.71735	1650	cpm	soil	0.25
311342.6723	1959809.002	-64.77904833	17.717375	1650	cpm	soil	0.25
311344.2774	1959810.463	-64.77903333	17.71738833	1770	cpm	soil	0.25
311345.8649	1959810.079	-64.77901833	17.717385	1710	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
311345.8336	1959806.759	-64.77901833	17.717355	1720	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
311345.6393	1959804.916	-64.77902	17.71733833	1550	cpm	soil	0.25
311345.6393	1959804.916	-64.77902	17.71733833	1510	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
311344.7345	1959802.711	-64.77902833	17.71731833	1640	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
311342.559	1959797.012	-64.77904833	17.71726667	2140	cpm	soil	0.25
311341.8292	1959794.621	-64.779055	17.717245	2360	cpm	soil	0.25
311341.0994	1959792.23	-64.77906167	17.71722333	2380	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311338.7453	1959786.349	-64.77908333	17.71717	2400	cpm	soil	0.25
311337.2944	1959782.488	-64.77909667	17.717135	2450	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311336.0238	1959778.995	-64.77910833	17.71710333	2610	cpm	soil	0.25
311334.7532	1959775.502	-64.77912	17.71707167	2550	cpm	soil	0.25
311334.3909	1959774.583	-64.77912333	17.71706333	2510	cpm	soil	0.25
311333.297	1959771.089	-64.77913333	17.71703167	2520	cpm	soil	0.25
311332.7562	1959769.987	-64.77913833	17.71702167	2430	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
311330.7523	1959763.734	-64.77915667	17.716965	2280	cpm	soil	0.25
311330.2097	1959762.447	-64.77916167	17.71695333	2280	cpm	soil	0.25
311328.764	1959759.14	-64.779175	17.71692333	2300	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
311327.4934	1959755.647	-64.77918667	17.71689167	2140	cpm	soil	0.25
311326.3995	1959752.153	-64.77919667	17.71686	2070	cpm	soil	0.25
311325.8587	1959751.051	-64.77920167	17.71685	2060	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311323.8809	1959747.565	-64.77922	17.71681833	2110	cpm	soil	0.25
311322.2619	1959744.628	-64.779235	17.71679167	2020	cpm	soil	0.25
311321.7228	1959743.711	-64.77924	17.71678333	2280	cpm	soil	0.25
311319.9218	1959740.223	-64.77925667	17.71675167	2480	cpm	soil	0.25
311318.4849	1959737.838	-64.77927	17.71673	2480	cpm	soil	0.25
311316.8589	1959734.164	-64.779285	17.71669667	2520	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
311315.0562	1959730.492	-64.77930167	17.71666333	2380	cpm	soil	0.25
311313.6087	1959727	-64.779315	17.71663167	2560	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311318.9246	1959728.241	-64.779265	17.71664333	2320	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
311320.0167	1959731.552	-64.779255	17.71667333	2500	cpm	soil	0.25
311320.0167	1959731.552	-64.779255	17.71667333	2650	cpm	soil	0.25
311320.3859	1959733.208	-64.77925167	17.71668833	2640	cpm	soil	0.25
311320.9355	1959735.232	-64.77924667	17.71670667	2710	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
311322.5736	1959740.198	-64.77923167	17.71675167	2630	cpm	soil	0.25
311324.0089	1959742.398	-64.77921833	17.71677167	2420	cpm	soil	0.25
311324.7352	1959744.42	-64.77921167	17.71679	2310	cpm	soil	0.25
311325.4615	1959746.443	-64.779205	17.71680833	2520	cpm	soil	0.25
311326.1896	1959748.65	-64.77919833	17.71682833	2410	cpm	soil	0.25
311326.7409	1959750.858	-64.77919333	17.71684833	2250	cpm	soil	0.25
311327.6492	1959753.432	-64.779185	17.71687167	2330	cpm	soil	0.25
311328.3773	1959755.639	-64.77917833	17.71689167	2340	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
311329.823	1959758.946	-64.779165	17.71692167	2310	cpm	soil	0.25
311330.5511	1959761.153	-64.77915833	17.71694167	2280	cpm	soil	0.25
311331.6466	1959764.832	-64.77914833	17.716975	2280	cpm	soil	0.25
311332.7283	1959767.036	-64.77913833	17.716995	2120	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311334.0146	1959772.189	-64.77912667	17.71704167	2230	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311335.098	1959774.577	-64.77911667	17.71706333	2330	cpm	soil	0.25
311336.3564	1959776.779	-64.779105	17.71708333	2390	cpm	soil	0.25
311337.6149	1959778.98	-64.77909333	17.71710333	2320	cpm	soil	0.25
311339.0501	1959781.181	-64.77908	17.71712333	2370	cpm	soil	0.25
311340.4853	1959783.381	-64.77906667	17.71714333	2450	cpm	soil	0.25
311341.742	1959785.398	-64.779055	17.71716167	2590	cpm	soil	0.25
311343.0004	1959787.6	-64.77904333	17.71718167	2620	cpm	soil	0.25
311344.0838	1959789.988	-64.77903333	17.71720333	2500	cpm	soil	0.25
311345.1655	1959792.191	-64.77902333	17.71722333	2400	cpm	soil	0.25
311346.2436	1959794.026	-64.77901333	17.71724	2650	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
311347.502	1959796.228	-64.77900167	17.71726	2590	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
311351.2826	1959803.387	-64.77896667	17.717325	2510	cpm	soil	0.25
311352.3659	1959805.775	-64.77895667	17.71734667	2410	cpm	soil	0.25
311353.9797	1959808.158	-64.77894167	17.71736833	2260	cpm	soil	0.25
311355.0578	1959809.992	-64.77893167	17.717385	2080	cpm	soil	0.25
311356.136	1959811.827	-64.77892167	17.71740167	2070	cpm	soil	0.25
311357.3874	1959813.291	-64.77891	17.717415	1890	cpm	soil	0.25
311358.2714	1959813.282	-64.77890167	17.717415	1860	cpm	soil	0.25
311359.3147	1959811.428	-64.77889167	17.71739833	1790	cpm	soil	0.25
311358.9506	1959810.324	-64.778895	17.71738833	1790	cpm	soil	0.25
311357.5032	1959806.833	-64.77890833	17.71735667	1790	cpm	soil	0.25
311356.4181	1959804.261	-64.77891833	17.71733333	1890	cpm	soil	0.25
311355.8773	1959803.159	-64.77892333	17.71732333	1920	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311353.714	1959798.752	-64.77894333	17.71728333	2230	cpm	soil	0.25
311351.913	1959795.264	-64.77896	17.71725167	2300	cpm	soil	0.25
311351.3722	1959794.162	-64.778965	17.71724167	2290	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311348.6576	1959787.546	-64.77899	17.71718167	2350	cpm	soil	0.25
0*	0*	0*	0*	2350	cpm	soil	0.25
311347.5638	1959784.052	-64.779	17.71715	2360	cpm	soil	0.25
311346.2931	1959780.559	-64.77901167	17.71711833	2300	cpm	soil	0.25
311345.3865	1959778.169	-64.77902	17.71709667	2480	cpm	soil	0.25
311344.8352	1959775.96	-64.779025	17.71707667	2530	cpm	soil	0.25
311344.2927	1959774.674	-64.77903	17.717065	2620	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
311342.8191	1959768.416	-64.77904333	17.71700833	2570	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311341.9038	1959765.104	-64.77905167	17.71697833	2460	cpm	soil	0.25
311340.6314	1959761.426	-64.77906333	17.716945	2500	cpm	soil	0.25
0*	0*	0*	0*	2500	cpm	soil	0.25
311338.6397	1959756.464	-64.77908167	17.7169	2420	cpm	soil	0.25
311338.0988	1959755.363	-64.77908667	17.71689	2460	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311336.8387	1959752.976	-64.77909833	17.71686833	2370	cpm	soil	0.25
311335.3912	1959749.485	-64.77911167	17.71683667	2320	cpm	soil	0.25
0*	0*	0*	0*	2360	cpm	soil	0.25
311333.0494	1959744.895	-64.77913333	17.716795	2290	cpm	soil	0.25
0*	0*	0*	0*	2350	cpm	soil	0.25
311331.0716	1959741.409	-64.77915167	17.71676333	2120	cpm	soil	0.25
311330.8914	1959741.042	-64.77915333	17.71676	2170	cpm	soil	0.25
311330.7059	1959740.121	-64.779155	17.71675167	2250	cpm	soil	0.25
311329.787	1959736.44	-64.77916333	17.71671833	2460	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311326.7241	1959730.381	-64.77919167	17.71666333	2710	cpm	soil	0.25
311326.1833	1959729.279	-64.77919667	17.71665333	2570	cpm	soil	0.25
311326.1659	1959727.435	-64.77919667	17.71663667	2110	cpm	soil	0.25
311328.1035	1959726.679	-64.77917833	17.71663	2060	cpm	soil	0.25
311331.2979	1959727.94	-64.77914833	17.71664167	2140	cpm	soil	0.25
311332.7349	1959730.324	-64.779135	17.71666333	1990	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
0*	0*	0*	0*	2080	cpm	soil	0.25
311336.1618	1959737.487	-64.77910333	17.71672833	2370	cpm	soil	0.25
311336.7027	1959738.588	-64.77909833	17.71673833	2350	cpm	soil	0.25
311337.7826	1959740.607	-64.77908833	17.71675667	2330	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311339.237	1959744.837	-64.779075	17.716795	2110	cpm	soil	0.25
311340.1558	1959748.518	-64.77906667	17.71682833	2340	cpm	soil	0.25
311340.6983	1959749.804	-64.77906167	17.71684	2320	cpm	soil	0.25
311341.7922	1959753.299	-64.77905167	17.71687167	2450	cpm	soil	0.25
311342.6988	1959755.688	-64.77904333	17.71689333	2530	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311343.7996	1959759.921	-64.77903333	17.71693167	2670	cpm	soil	0.25
311344.3474	1959761.76	-64.77902833	17.71694833	2470	cpm	soil	0.25
311345.0772	1959764.152	-64.77902167	17.71697	2410	cpm	soil	0.25
311345.6285	1959766.36	-64.77901667	17.71699	2380	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311347.0777	1959770.036	-64.77900333	17.71702333	2420	cpm	soil	0.25
311347.8092	1959772.612	-64.77899667	17.71704667	2460	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
311349.8114	1959778.681	-64.77897833	17.71710167	2640	cpm	soil	0.25
311350.5447	1959781.441	-64.77897167	17.71712667	2710	cpm	soil	0.25
311351.6299	1959784.013	-64.77896167	17.71715	2610	cpm	soil	0.25
311352.5364	1959786.403	-64.77895333	17.71717167	2470	cpm	soil	0.25
311353.268	1959788.979	-64.77894667	17.717195	2540	cpm	soil	0.25
311353.8088	1959790.08	-64.77894167	17.717205	2560	cpm	soil	0.25
311354.9062	1959793.944	-64.77893167	17.71724	2500	cpm	soil	0.25
0*	0*	0*	0*	2580	cpm	soil	0.25
311356.5426	1959798.725	-64.77891667	17.71728333	2220	cpm	soil	0.25
311357.0956	1959801.118	-64.77891167	17.717305	2230	cpm	soil	0.25
311357.4596	1959802.221	-64.77890833	17.717315	2210	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311358.55	1959805.347	-64.77889833	17.71734333	2080	cpm	soil	0.25
311358.914	1959806.451	-64.778895	17.71735333	2030	cpm	soil	0.25
311359.8258	1959809.394	-64.77888667	17.71738	2000	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311361.7862	1959811.035	-64.77886833	17.717395	1950	cpm	soil	0.25
311362.3026	1959809.555	-64.77886333	17.71738167	2040	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311361.7287	1959804.948	-64.77886833	17.71734	2000	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311360.4441	1959799.98	-64.77888	17.717295	2000	cpm	soil	0.25
311359.9033	1959798.878	-64.778885	17.717285	2140	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311357.5388	1959791.89	-64.77890667	17.71722167	1990	cpm	soil	0.25
311356.62	1959788.209	-64.778915	17.71718833	1900	cpm	soil	0.25
311355.8867	1959785.449	-64.77892167	17.71716333	1930	cpm	soil	0.25
311354.8016	1959782.876	-64.77893167	17.71714	1950	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
311353.6938	1959777.906	-64.77894167	17.717095	2030	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
311352.4092	1959772.937	-64.77895333	17.71705	2240	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
311351.3153	1959769.443	-64.77896333	17.71701833	2290	cpm	soil	0.25
311350.3983	1959765.946	-64.77897167	17.71698667	2380	cpm	soil	0.25
311349.6685	1959763.555	-64.77897833	17.716965	2260	cpm	soil	0.25
311349.3044	1959762.451	-64.77898167	17.716955	2230	cpm	soil	0.25
311348.5746	1959760.06	-64.77898833	17.71693333	2250	cpm	soil	0.25
311347.6558	1959756.379	-64.77899667	17.7169	2170	cpm	soil	0.25
311347.101	1959753.802	-64.77900167	17.71687667	2170	cpm	soil	0.25
311346.5585	1959752.516	-64.77900667	17.716865	2170	cpm	soil	0.25
311346.1944	1959751.412	-64.77901	17.716855	2190	cpm	soil	0.25
311344.7453	1959747.736	-64.77902333	17.71682167	2220	cpm	soil	0.25
311344.0155	1959745.345	-64.77903	17.7168	2180	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311342.7378	1959741.114	-64.77904167	17.71676167	2250	cpm	soil	0.25
311341.8312	1959738.724	-64.77905	17.71674	2090	cpm	soil	0.25
311341.2922	1959737.807	-64.779055	17.71673167	2180	cpm	soil	0.25
311339.8447	1959734.316	-64.77906833	17.7167	2240	cpm	soil	0.25
311339.479	1959733.028	-64.77907167	17.71668833	2330	cpm	soil	0.25
311337.6797	1959729.724	-64.77908833	17.71665833	2390	cpm	soil	0.25
311337.1371	1959728.438	-64.77909333	17.71664667	2230	cpm	soil	0.25
311337.4628	1959725.483	-64.77909	17.71662	2040	cpm	soil	0.25
311338.3398	1959724.737	-64.77908167	17.71661333	2150	cpm	soil	0.25
311341.8738	1959724.519	-64.77904833	17.71661167	2090	cpm	soil	0.25
311343.1287	1959726.352	-64.77903667	17.71662833	2040	cpm	soil	0.25
311343.6713	1959727.638	-64.77903167	17.71664	1950	cpm	soil	0.25
311344.7634	1959730.949	-64.77902167	17.71667	2010	cpm	soil	0.25
311345.1361	1959732.974	-64.77901833	17.71668833	1970	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311345.866	1959735.366	-64.77901167	17.71671	2170	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
311347.6757	1959739.776	-64.778995	17.71675	1950	cpm	soil	0.25
311348.402	1959741.798	-64.77898833	17.71676833	1940	cpm	soil	0.25
311348.955	1959744.191	-64.77898333	17.71679	2110	cpm	soil	0.25
311349.5098	1959746.769	-64.77897833	17.71681333	2150	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
311350.2588	1959751.189	-64.77897167	17.71685333	2200	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
311351.3596	1959755.422	-64.77896167	17.71689167	2160	cpm	soil	0.25
311352.6302	1959758.915	-64.77895	17.71692333	2080	cpm	soil	0.25
311352.996	1959760.203	-64.77894667	17.716935	2000	cpm	soil	0.25
311353.9009	1959762.408	-64.77893833	17.716955	2130	cpm	soil	0.25
311355.1715	1959765.901	-64.77892667	17.71698667	2190	cpm	soil	0.25
311355.5478	1959768.296	-64.77892333	17.71700833	2190	cpm	soil	0.25
311355.735	1959769.401	-64.77892167	17.71701833	2200	cpm	soil	0.25
311356.1112	1959771.795	-64.77891833	17.71704	2310	cpm	soil	0.25
311356.4945	1959774.928	-64.778915	17.71706833	2280	cpm	soil	0.25
311356.673	1959775.111	-64.77891333	17.71707	2240	cpm	soil	0.25
311356.673	1959775.111	-64.77891333	17.71707	2050	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
311357.9488	1959779.157	-64.77890167	17.71710667	1920	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
311359.2299	1959783.757	-64.77889	17.71714833	1650	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
311361.5665	1959787.793	-64.77886833	17.717185	1580	cpm	soil	0.25
311362.9738	1959787.042	-64.778855	17.71717833	1570	cpm	soil	0.25
311362.426	1959785.203	-64.77886	17.71716167	1600	cpm	soil	0.25
311361.698	1959782.996	-64.77886667	17.71714167	1560	cpm	soil	0.25
0*	0*	0*	0*	1540	cpm	soil	0.25
311359.708	1959778.218	-64.778885	17.71709833	1500	cpm	soil	0.25
311358.9817	1959776.196	-64.77889167	17.71708	1430	cpm	soil	0.25
0*	0*	0*	0*	1460	cpm	soil	0.25
311357.6971	1959771.227	-64.77890333	17.717035	1490	cpm	soil	0.25
311357.4994	1959769.015	-64.778905	17.717015	1590	cpm	soil	0.25
311356.7696	1959766.624	-64.77891167	17.71699333	1560	cpm	soil	0.25
311355.863	1959764.234	-64.77892	17.71697167	1670	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311354.3789	1959756.869	-64.77893333	17.716905	1790	cpm	soil	0.25
311353.8294	1959754.845	-64.77893833	17.71688667	1730	cpm	soil	0.25
311353.6422	1959753.74	-64.77894	17.71687667	1810	cpm	soil	0.25
311352.375	1959750.616	-64.77895167	17.71684833	1780	cpm	soil	0.25
311352.0092	1959749.328	-64.778955	17.71683667	1910	cpm	soil	0.25
311351.0904	1959745.647	-64.77896333	17.71680333	2000	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311349.8093	1959741.047	-64.778975	17.71676167	2000	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311349.4348	1959738.837	-64.77897833	17.71674167	1840	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
311347.8002	1959734.241	-64.77899333	17.7167	1790	cpm	soil	0.25
311346.8936	1959731.851	-64.77900167	17.71667833	1730	cpm	soil	0.25
311345.987	1959729.461	-64.77901	17.71665667	1670	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
311344.5343	1959725.416	-64.77902333	17.71662	1770	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
311345.217	1959722.827	-64.77901667	17.71659667	1830	cpm	soil	0.25
311348.4044	1959723.351	-64.77898667	17.71660167	1770	cpm	soil	0.25
311349.4704	1959723.894	-64.77897667	17.71660667	1700	cpm	soil	0.25
311351.793	1959726.455	-64.778955	17.71663	1580	cpm	soil	0.25
311352.5072	1959727.186	-64.77894833	17.71663667	1580	cpm	soil	0.25
311353.5871	1959729.205	-64.77893833	17.716655	1630	cpm	soil	0.25
311353.9494	1959730.124	-64.778935	17.71666333	1670	cpm	soil	0.25
311355.0327	1959732.512	-64.778925	17.716685	1650	cpm	soil	0.25
311355.9359	1959734.533	-64.77891667	17.71670333	1610	cpm	soil	0.25
311356.2999	1959735.636	-64.77891333	17.71671333	1620	cpm	soil	0.25
311357.567	1959738.76	-64.77890167	17.71674167	1590	cpm	soil	0.25
311358.2951	1959740.967	-64.778895	17.71676167	1560	cpm	soil	0.25
311358.4824	1959742.072	-64.77889333	17.71677167	1460	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
311358.7114	1959747.604	-64.77889167	17.71682167	1490	cpm	soil	0.25
311359.0859	1959749.814	-64.77888833	17.71684167	1460	cpm	soil	0.25
311359.2836	1959752.026	-64.77888667	17.71686167	1380	cpm	soil	0.25
311359.6599	1959754.421	-64.77888333	17.71688333	1310	cpm	soil	0.25
311360.2094	1959756.445	-64.77887833	17.71690167	1360	cpm	soil	0.25
311360.4054	1959758.472	-64.77887667	17.71692	1370	cpm	soil	0.25
311360.6048	1959760.869	-64.778875	17.71694167	1360	cpm	soil	0.25
0*	0*	0*	0*	1360	cpm	soil	0.25
311361.002	1959765.477	-64.77887167	17.71698333	1330	cpm	soil	0.25
311361.1997	1959767.689	-64.77887	17.71700333	1310	cpm	soil	0.25
311361.3974	1959769.901	-64.77886833	17.71702333	1350	cpm	soil	0.25
0*	0*	0*	0*	1380	cpm	soil	0.25
0*	0*	0*	0*	1390	cpm	soil	0.25
311360.0389	1959775.817	-64.77888167	17.71707667	1350	cpm	soil	0.25
0*	0*	0*	0*	1290	cpm	soil	0.25
311356.8724	1959777.507	-64.77891167	17.71709167	1370	cpm	soil	0.25
311352.8151	1959778.468	-64.77895	17.7171	1600	cpm	soil	0.25
311349.99	1959778.863	-64.77897667	17.71710333	1810	cpm	soil	0.25
311348.7542	1959779.06	-64.77898833	17.717105	2020	cpm	soil	0.25
311345.0417	1959779.095	-64.77902333	17.717105	2090	cpm	soil	0.25
311342.7417	1959778.932	-64.779045	17.71710333	2560	cpm	soil	0.25
311340.6133	1959778.214	-64.779065	17.71709667	2660	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
311334.9317	1959775.685	-64.77911833	17.71707333	2320	cpm	soil	0.25
311330.1393	1959773.701	-64.77916333	17.717055	2200	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311326.7664	1959772.257	-64.779195	17.71704167	2120	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311321.7867	1959769.168	-64.77924167	17.71701333	2360	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
311318.5819	1959766.8	-64.77927167	17.71699167	2280	cpm	soil	0.25
311315.7254	1959763.876	-64.77929833	17.716965	2290	cpm	soil	0.25
311313.9401	1959762.048	-64.779315	17.71694833	2200	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
311309.4768	1959757.478	-64.77935667	17.71690667	1990	cpm	soil	0.25
311306.6238	1959754.922	-64.77938333	17.71688333	1960	cpm	soil	0.25
311305.7311	1959754.008	-64.77939167	17.716875	2150	cpm	soil	0.25
311302.8764	1959751.268	-64.77941833	17.71685	2190	cpm	soil	0.25
311301.9855	1959750.539	-64.77942667	17.71684333	2100	cpm	soil	0.25
311299.129	1959747.614	-64.77945333	17.71681667	2220	cpm	soil	0.25
311296.815	1959745.976	-64.779475	17.71680167	2140	cpm	soil	0.25
311295.3833	1959744.144	-64.77948833	17.716785	2260	cpm	soil	0.25
311295.2013	1959743.593	-64.77949	17.71678	2280	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
311294.1283	1959742.311	-64.7795	17.71676833	2410	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
311289.5022	1959739.219	-64.77954333	17.71674	2280	cpm	soil	0.25
311288.6166	1959739.043	-64.77955167	17.71673833	2330	cpm	soil	0.25
311288.4398	1959739.045	-64.77955333	17.71673833	2230	cpm	soil	0.25
311288.4398	1959739.045	-64.77955333	17.71673833	2050	cpm	soil	0.25
311288.4398	1959739.045	-64.77955333	17.71673833	1810	cpm	soil	0.25
311288.4398	1959739.045	-64.77955333	17.71673833	1900	cpm	soil	0.25
311287.7361	1959739.42	-64.77956	17.71674167	2040	cpm	soil	0.25
311285.8194	1959742.39	-64.77957833	17.71676833	2080	cpm	soil	0.25
311285.4762	1959743.5	-64.77958167	17.71677833	2100	cpm	soil	0.25
311284.6063	1959744.984	-64.77959	17.71679167	2170	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311282.4656	1959742.975	-64.77961	17.71677333	2220	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
311283.1222	1959737.619	-64.77960333	17.716725	2360	cpm	soil	0.25
311283.8084	1959735.399	-64.77959667	17.716705	2520	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
311285.1913	1959732.065	-64.77958333	17.716675	2390	cpm	soil	0.25
311285.8636	1959728.369	-64.77957667	17.71664167	2290	cpm	soil	0.25
311286.205	1959727.075	-64.77957333	17.71663	2390	cpm	soil	0.25
311287.7542	1959722.633	-64.77955833	17.71659	2390	cpm	soil	0.25
311287.9275	1959722.262	-64.77955667	17.71658667	2410	cpm	soil	0.25
311288.6155	1959720.226	-64.77955	17.71656833	2300	cpm	soil	0.25
311288.9586	1959719.116	-64.77954667	17.71655833	2170	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311290.3327	1959714.86	-64.77953333	17.71652	2230	cpm	soil	0.25
311290.6776	1959713.935	-64.77953	17.71651167	2270	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311290.8526	1959713.748	-64.77952833	17.71651	2310	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
311291.5284	1959710.421	-64.77952167	17.71648	2380	cpm	soil	0.25
311292.2129	1959708.017	-64.779515	17.71645833	2460	cpm	soil	0.25
0*	0*	0*	0*	2530	cpm	soil	0.25
311293.7604	1959703.39	-64.7795	17.71641667	2510	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311295.4829	1959698.577	-64.77948333	17.71637333	2360	cpm	soil	0.25
311295.8243	1959697.283	-64.77948	17.71636167	2380	cpm	soil	0.25
311296.8501	1959693.584	-64.77947	17.71632833	2570	cpm	soil	0.25
0*	0*	0*	0*	2350	cpm	soil	0.25
311298.044	1959688.96	-64.77945833	17.71628667	2280	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311296.9397	1959684.359	-64.77946833	17.716245	2310	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
311293.0486	1959684.211	-64.779505	17.71624333	2140	cpm	soil	0.25
311291.6553	1959686.438	-64.77951833	17.71626333	2140	cpm	soil	0.25
311291.1354	1959687.55	-64.77952333	17.71627333	2200	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
311289.4355	1959694.761	-64.77954	17.71633833	2060	cpm	soil	0.25
311288.9226	1959696.61	-64.779545	17.716355	2130	cpm	soil	0.25
0*	0*	0*	0*	2030	cpm	soil	0.25
311288.7493	1959696.981	-64.77954667	17.71635833	1970	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311287.3646	1959700.13	-64.77956	17.71638667	2000	cpm	soil	0.25
311286.6802	1959702.535	-64.77956667	17.71640833	1880	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311284.4447	1959709.197	-64.77958833	17.71646833	1950	cpm	soil	0.25
311283.7585	1959711.417	-64.779595	17.71648833	1970	cpm	soil	0.25
311283.4258	1959713.634	-64.77959833	17.71650833	1920	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
311280.8281	1959719.378	-64.77962333	17.71656	2250	cpm	soil	0.25
311280.3204	1959721.781	-64.77962833	17.71658167	2220	cpm	soil	0.25
311279.4556	1959723.818	-64.77963667	17.7166	2100	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
311276.3554	1959732.518	-64.77966667	17.71667833	2030	cpm	soil	0.25
311275.846	1959734.736	-64.77967167	17.71669833	2100	cpm	soil	0.25
311275.3261	1959735.848	-64.77967667	17.71670833	2250	cpm	soil	0.25
311274.2985	1959739.363	-64.77968667	17.71674	2180	cpm	soil	0.25
311273.6141	1959741.768	-64.77969333	17.71676167	2120	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
311272.5847	1959745.098	-64.77970333	17.71679167	1990	cpm	soil	0.25
311271.3786	1959748.43	-64.779715	17.71682167	1850	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311271.0355	1959749.54	-64.77971833	17.71683167	1900	cpm	soil	0.25
311269.6491	1959752.505	-64.77973167	17.71685833	1950	cpm	soil	0.25
311267.8935	1959753.813	-64.77974833	17.71687	2180	cpm	soil	0.25
311265.9662	1959755.676	-64.77976667	17.71688667	2310	cpm	soil	0.25
311265.2678	1959756.605	-64.77977333	17.716895	2350	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
0*	0*	0*	0*	2510	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
311260.783	1959768.454	-64.77981667	17.71700167	2170	cpm	soil	0.25
311260.4643	1959772.146	-64.77982	17.717035	2010	cpm	soil	0.25
311260.4765	1959773.437	-64.77982	17.71704667	2080	cpm	soil	0.25
311259.9828	1959777.316	-64.779825	17.71708167	2230	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311258.255	1959781.575	-64.77984167	17.71712	2300	cpm	soil	0.25
311257.3746	1959781.953	-64.77985	17.71712333	1940	cpm	soil	0.25
311255.7661	1959780.123	-64.779865	17.71710667	1790	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
311255.9045	1959776.063	-64.77986333	17.71707	1590	cpm	soil	0.25
311256.0481	1959772.557	-64.77986167	17.71703833	1440	cpm	soil	0.25
0*	0*	0*	0*	1300	cpm	soil	0.25
311256.5506	1959769.601	-64.77985667	17.71701167	1280	cpm	soil	0.25
311256.8954	1959768.675	-64.77985333	17.71700333	1300	cpm	soil	0.25
311256.8954	1959768.675	-64.77985333	17.71700333	1270	cpm	soil	0.25
311256.8954	1959768.675	-64.77985333	17.71700333	1290	cpm	soil	0.25
311257.0617	1959767.566	-64.77985167	17.71699333	1260	cpm	soil	0.25
311257.5677	1959764.979	-64.77984667	17.71697	1310	cpm	soil	0.25
311258.2522	1959762.574	-64.77984	17.71694833	1260	cpm	soil	0.25
311259.1117	1959759.983	-64.77983167	17.716925	1270	cpm	soil	0.25
311259.6176	1959757.396	-64.77982667	17.71690167	1300	cpm	soil	0.25
311259.9468	1959754.81	-64.77982333	17.71687833	1280	cpm	soil	0.25
311260.6312	1959752.406	-64.77981667	17.71685667	1280	cpm	soil	0.25
0*	0*	0*	0*	1260	cpm	soil	0.25
311261.3174	1959750.185	-64.77981	17.71683667	1290	cpm	soil	0.25
311262.5271	1959747.222	-64.77979833	17.71681	1320	cpm	soil	0.25
311263.7332	1959743.89	-64.77978667	17.71678	1420	cpm	soil	0.25
311264.2409	1959741.487	-64.77978167	17.71675833	1410	cpm	soil	0.25
0*	0*	0*	0*	1470	cpm	soil	0.25
311266.3082	1959735.749	-64.77976167	17.71670667	1530	cpm	soil	0.25
0*	0*	0*	0*	1570	cpm	soil	0.25
311267.8714	1959732.782	-64.77974667	17.71668	1510	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
311269.0618	1959727.79	-64.779735	17.716635	1670	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
311272.3144	1959716.506	-64.77970333	17.71653333	1720	cpm	soil	0.25
311273.0041	1959714.655	-64.77969667	17.71651667	1880	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311273.5153	1959712.621	-64.77969167	17.71649833	1890	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
311274.8895	1959708.365	-64.77967833	17.71646	1850	cpm	soil	0.25
311275.5774	1959706.329	-64.77967167	17.71644167	1800	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
311276.7748	1959702.075	-64.77966	17.71640333	1880	cpm	soil	0.25
311277.2947	1959700.963	-64.779655	17.71639333	1870	cpm	soil	0.25
311278.3223	1959697.448	-64.779645	17.71636167	1970	cpm	soil	0.25
311278.8317	1959695.23	-64.77964	17.71634167	2030	cpm	soil	0.25
311279.5145	1959692.641	-64.77963333	17.71631833	2160	cpm	soil	0.25
311280.0344	1959691.529	-64.77962833	17.71630833	2260	cpm	soil	0.25
311281.0654	1959688.383	-64.77961833	17.71628	2300	cpm	soil	0.25
311281.5749	1959686.164	-64.77961333	17.71626	2300	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
311281.533	1959681.737	-64.77961333	17.71622	2300	cpm	soil	0.25
311279.5814	1959681.018	-64.77963167	17.71621333	2130	cpm	soil	0.25
311277.6489	1959682.328	-64.77965	17.716225	2230	cpm	soil	0.25
311276.091	1959685.847	-64.779665	17.71625667	2310	cpm	soil	0.25
311275.228	1959688.069	-64.77967333	17.71627667	2200	cpm	soil	0.25
311274.7098	1959689.366	-64.77967833	17.71628833	2270	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2250	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2180	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2050	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2190	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2050	cpm	soil	0.25
311272.9786	1959693.256	-64.779695	17.71632333	2100	cpm	soil	0.25
311272.4709	1959695.659	-64.7797	17.716345	2050	cpm	soil	0.25
311271.4311	1959697.882	-64.77971	17.716365	2190	cpm	soil	0.25
311270.3878	1959699.737	-64.77972	17.71638167	2160	cpm	soil	0.25
311269.8662	1959700.664	-64.779725	17.71639	2110	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
311267.6168	1959705.851	-64.77974667	17.71643667	2120	cpm	soil	0.25
311267.1056	1959707.885	-64.77975167	17.716455	2090	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
0*	0*	0*	0*	1880	cpm	soil	0.25
311265.0487	1959714.73	-64.77977167	17.71651667	1980	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311263.8478	1959718.616	-64.77978333	17.71655167	2380	cpm	soil	0.25
311263.1616	1959720.836	-64.77979	17.71657167	2330	cpm	soil	0.25
311262.4736	1959722.872	-64.77979667	17.71659	2130	cpm	soil	0.25
311261.952	1959723.799	-64.77980167	17.71659833	2060	cpm	soil	0.25
311261.2605	1959725.466	-64.77980833	17.71661333	2210	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
0*	0*	0*	0*	2450	cpm	soil	0.25
311258.5052	1959733.24	-64.779835	17.71668333	2340	cpm	soil	0.25
311257.6422	1959735.462	-64.77984333	17.71670333	2220	cpm	soil	0.25
311256.7792	1959737.684	-64.77985167	17.71672333	2180	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
311255.3963	1959741.017	-64.779865	17.71675333	2000	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
311253.1504	1959746.573	-64.77988667	17.71680333	2140	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311251.2423	1959750.465	-64.779905	17.71683833	1810	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
311249.6861	1959754.169	-64.77992	17.71687167	1670	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
311248.473	1959756.763	-64.77993167	17.716895	1450	cpm	soil	0.25
311247.7851	1959758.799	-64.77993833	17.71691333	1420	cpm	soil	0.25
0*	0*	0*	0*	1460	cpm	soil	0.25
311246.936	1959762.497	-64.77994667	17.71694667	1430	cpm	soil	0.25
311246.4284	1959764.9	-64.77995167	17.71696833	1250	cpm	soil	0.25
311245.7474	1959767.673	-64.77995833	17.71699333	1200	cpm	soil	0.25
311245.7509	1959768.042	-64.77995833	17.71699667	1150	cpm	soil	0.25
311245.4043	1959768.784	-64.77996167	17.71700333	1170	cpm	soil	0.25
311245.2362	1959769.708	-64.77996333	17.71701167	1140	cpm	soil	0.25
311244.2034	1959772.669	-64.77997333	17.71703833	1150	cpm	soil	0.25
0*	0*	0*	0*	1170	cpm	soil	0.25
311243.5207	1959775.258	-64.77998	17.71706167	1210	cpm	soil	0.25
311242.6646	1959778.218	-64.77998833	17.71708833	1220	cpm	soil	0.25
311242.3198	1959779.143	-64.77999167	17.71709667	1230	cpm	soil	0.25
311241.4533	1959780.996	-64.78	17.71711333	1220	cpm	soil	0.25
311240.9369	1959782.477	-64.780005	17.71712667	1200	cpm	soil	0.25
311240.4187	1959783.773	-64.78001	17.71713833	1180	cpm	soil	0.25
0*	0*	0*	0*	1160	cpm	soil	0.25
0*	0*	0*	0*	1150	cpm	soil	0.25
311238.88	1959789.322	-64.780025	17.71718833	1140	cpm	soil	0.25
0*	0*	0*	0*	1120	cpm	soil	0.25
0*	0*	0*	0*	1090	cpm	soil	0.25
311237.1505	1959793.397	-64.78004167	17.717225	1090	cpm	soil	0.25
311236.1072	1959795.252	-64.78005167	17.71724167	1110	cpm	soil	0.25
0*	0*	0*	0*	1130	cpm	soil	0.25
311234.0085	1959797.67	-64.78007167	17.71726333	1070	cpm	soil	0.25
311232.5855	1959796.761	-64.780085	17.717255	1100	cpm	soil	0.25
311231.5038	1959794.557	-64.780095	17.717235	1050	cpm	soil	0.25
311232.0202	1959793.077	-64.78009	17.71722167	1050	cpm	soil	0.25
311232.5401	1959791.965	-64.780085	17.71721167	1070	cpm	soil	0.25
311232.5366	1959791.596	-64.780085	17.71720833	1110	cpm	soil	0.25
311233.5816	1959789.926	-64.780075	17.71719333	1110	cpm	soil	0.25
311234.2678	1959787.706	-64.78006833	17.71717333	1140	cpm	soil	0.25
311234.4342	1959786.597	-64.78006667	17.71716333	1140	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311235.4617	1959783.082	-64.78005667	17.71713167	1130	cpm	soil	0.25
311235.6281	1959781.974	-64.780055	17.71712167	1220	cpm	soil	0.25
311236.6626	1959779.197	-64.780045	17.71709667	1240	cpm	soil	0.25
311237.8652	1959775.496	-64.78003333	17.71706333	1220	cpm	soil	0.25
311238.1996	1959773.464	-64.78003	17.717045	1260	cpm	soil	0.25
311239.0626	1959771.242	-64.78002167	17.717025	1260	cpm	soil	0.25
311239.5703	1959768.839	-64.78001667	17.71700333	1290	cpm	soil	0.25
311240.435	1959766.801	-64.78000833	17.716985	1380	cpm	soil	0.25
311241.3015	1959764.948	-64.78	17.71696833	1330	cpm	soil	0.25
311241.6377	1959763.1	-64.77999667	17.71695167	1270	cpm	soil	0.25
311241.972	1959761.068	-64.77999333	17.71693333	1250	cpm	soil	0.25
311242.835	1959758.846	-64.779985	17.71691333	1250	cpm	soil	0.25
311243.8748	1959756.622	-64.779975	17.71689333	1220	cpm	soil	0.25
311244.386	1959754.588	-64.77997	17.716875	1340	cpm	soil	0.25
311244.8972	1959752.554	-64.779965	17.71685667	1320	cpm	soil	0.25
311245.4084	1959750.52	-64.77996	17.71683833	1260	cpm	soil	0.25
311246.2696	1959748.114	-64.77995167	17.71681667	1270	cpm	soil	0.25
0*	0*	0*	0*	1350	cpm	soil	0.25
311247.6438	1959743.858	-64.77993833	17.71677833	1430	cpm	soil	0.25
311248.5085	1959741.82	-64.77993	17.71676	1590	cpm	soil	0.25
311248.8394	1959739.419	-64.77992667	17.71673833	1530	cpm	soil	0.25
311249.1738	1959737.387	-64.77992333	17.71672	1650	cpm	soil	0.25
311249.8635	1959735.535	-64.77991667	17.71670333	1800	cpm	soil	0.25
311250.3747	1959733.501	-64.77991167	17.716685	1990	cpm	soil	0.25
311250.7073	1959731.284	-64.77990833	17.716665	2080	cpm	soil	0.25
311251.215	1959728.881	-64.77990333	17.71664333	2260	cpm	soil	0.25
311251.9012	1959726.661	-64.77989667	17.71662333	2210	cpm	soil	0.25
311252.4107	1959724.443	-64.77989167	17.71660333	2350	cpm	soil	0.25
311253.1021	1959722.776	-64.779885	17.71658833	2240	cpm	soil	0.25
311253.0934	1959721.854	-64.779885	17.71658	2270	cpm	soil	0.25
311253.5941	1959718.713	-64.77988	17.71655167	2200	cpm	soil	0.25
311254.0913	1959715.203	-64.779875	17.71652	2400	cpm	soil	0.25
311254.2559	1959713.91	-64.77987333	17.71650833	2180	cpm	soil	0.25
311254.9404	1959711.505	-64.77986667	17.71648667	2240	cpm	soil	0.25
311255.6231	1959708.916	-64.77986	17.71646333	2290	cpm	soil	0.25
311255.6179	1959708.363	-64.77986	17.71645833	2270	cpm	soil	0.25
311256.1325	1959706.698	-64.779855	17.71644333	2190	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
311257.3387	1959703.366	-64.77984333	17.71641333	2180	cpm	soil	0.25
311258.3697	1959700.22	-64.77983333	17.716385	2230	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311260.276	1959696.143	-64.779815	17.71634833	2140	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311261.4821	1959692.811	-64.77980333	17.71631833	2060	cpm	soil	0.25
311261.8148	1959690.594	-64.7798	17.71629833	2010	cpm	soil	0.25
311262.501	1959688.374	-64.77979333	17.71627833	1960	cpm	soil	0.25
311263.7071	1959685.042	-64.77978167	17.71624833	1990	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311264.2165	1959682.824	-64.77977667	17.71622833	1830	cpm	soil	0.25
311264.7277	1959680.789	-64.77977167	17.71621	1790	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
311266.4642	1959677.452	-64.779755	17.71618	1630	cpm	soil	0.25
311266.4642	1959677.452	-64.779755	17.71618	1720	cpm	soil	0.25
311266.4642	1959677.452	-64.779755	17.71618	1700	cpm	soil	0.25
				Minimum =	**1050**		
				Maximum =	**2770**		
				Median =	**2130**		
				Arithmetic mean =	**2045**		
				One Sigma =	**374**		
				Two Sigma =	**747**		

Average Background =	**5193.75**	**cpm**		
Background +/- One Sigma	**4597**	**to**	**5790**	**cpm**
Background +/- Two Sigma	**4000**	**to**	**6387**	**cpm**

0* - GPS data not available

Table 35: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-01-C	45	42	Red Mud	17.71075667	-64.780055
RMAEXP-02-C	47	45	Red Mud	17.710935	-64.78017167
RMAEXP-03-C	38	38	Red Mud	17.711085	-64.78023
RMAEXP-04-C	37	35	Red Mud	17.711155	-64.78033333
RMAEXP-05-C	37	35	Red Mud	17.71129	-64.78027667
RMAEXP-06-C	44	43	Red Mud	17.71122833	-64.78016
RMAEXP-07-C	48	46	Red Mud	17.71115333	-64.78004333
RMAEXP-08-C	48	46	Red Mud	17.71123333	-64.77993833
RMAEXP-09-C	48	46	Red Mud	17.71130333	-64.78005833
RMAEXP-10-C	45	42	Red Mud	17.71137167	-64.780175
RMAEXP-11-C	40	39	Red Mud	17.71161167	-64.78009167
RMAEXP-12-C	47	44	Red Mud	17.711505	-64.77983667
RMAEXP-13-C	47	45	Red Mud	17.71169	-64.77964833
RMAEXP-14-C	44	41	Red Mud	17.7119	-64.77948667
RMAEXP-15-C	49	46	Red Mud	17.71105667	-64.77978
RMAEXP-16-C	48	47	Red Mud	17.710825	-64.77986167
RMAEXP-17-C	57	52	Red Mud	17.71058667	-64.77971333
RMAEXP-18-C	45	41	Red Mud	17.71036667	-64.779535
RMAEXP-19-C	42	40	Red Mud	17.71016333	-64.779765
RMAEXP-20-C	40	38	Red Mud	17.70991667	-64.77961
RMAEXP-21-C	44	43	Red Mud	17.71005167	-64.77937
RMAEXP-22-C	43	41	Red Mud	17.70983167	-64.77921
RMAEXP-23-C	38	37	Red Mud	17.70968	-64.77945167
RMAEXP-24-C	41	39	Red Mud	17.70966333	-64.77906333
RMAEXP-25-C	44	43	Red Mud	17.70941833	-64.77890833
RMAEXP-26-C	39	38	Red Mud	17.70923333	-64.77913667
RMAEXP-27-C	47	47	Red Mud	17.70899	-64.778965
RMAEXP-28-C	51	49	Red Mud	17.70921	-64.77875
RMAEXP-29-C	48	48	Red Mud	17.70897167	-64.77857667
RMAEXP-30-C	43	40	Red Mud	17.70881667	-64.77881667

Table 35: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-31-C	45	43	Red Mud	17.709105	-64.778275
RMAEXP-32-C	46	44	Red Mud	17.70921	-64.778035
RMAEXP-33-C	46	44	Red Mud	17.709345	-64.77777167
RMAEXP-34-C	47	46	Red Mud	17.709505	-64.77753
RMAEXP-35-C	46	44	Red Mud	17.709665	-64.77726833
RMAEXP-36-C	32	32	Red Mud	17.70982333	-64.777085
RMAEXP-37-C	49	47	Red Mud	17.70935833	-64.77838833
RMAEXP-38-C	46	44	Red Mud	17.70952667	-64.77816
RMAEXP-39-C	50	49	Red Mud	17.70966	-64.77790333
RMAEXP-40-C	48	47	Red Mud	17.70978167	-64.77764333
RMAEXP-41-C	46	45	Red Mud	17.70992333	-64.777365
RMAEXP-42-C	46	44	Red Mud	17.710035	-64.77709833
RMAEXP-43-C	45	43	Red Mud	17.71017333	-64.77682167
RMAEXP-44-C	43	41	Red Mud	17.710345	-64.776955
RMAEXP-45-C	44	42	Red Mud	17.71019667	-64.77719167
RMAEXP-46-C	43	43	Red Mud	17.71007167	-64.77745667
RMAEXP-47-C	50	49	Red Mud	17.70995833	-64.777725
RMAEXP-48-C	60	58	Red Mud	17.70987	-64.77800833
RMAEXP-49-C	49	49	Red Mud	17.70974	-64.77824833
RMAEXP-50-C	50	48	Red Mud	17.70954833	-64.77856667
RMAEXP-51-C	51	49	Red Mud	17.70975333	-64.778765
RMAEXP-52-C	49	47	Red Mud	17.70996667	-64.77896667
RMAEXP-53-C	50	48	Red Mud	17.71017333	-64.779165
RMAEXP-54-C	50	48	Red Mud	17.71042667	-64.77931167
RMAEXP-55-C	48	46	Red Mud	17.71064833	-64.779535
RMAEXP-56-C	50	50	Red Mud	17.71093167	-64.77966667
RMAEXP-57-C	54	50	Red Mud	17.71113167	-64.77943833
RMAEXP-58-C	52	49	Red Mud	17.71091667	-64.77924
RMAEXP-59-C	49	47	Red Mud	17.71119333	-64.77923
RMAEXP-60-C	45	43	Red Mud	17.71146	-64.77912333

Table 35: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-61-C	46	45	Red Mud	17.711655	-64.779185
RMAEXP-62-C	45	43	Red Mud	17.71185	-64.77896667
RMAEXP-63-C	45	43	Red Mud	17.71192333	-64.778675
RMAEXP-64-C	46	44	Red Mud	17.71199833	-64.77838833
RMAEXP-65-C	48	47	Red Mud	17.71174	-64.77824667
RMAEXP-66-C	49	47	Red Mud	17.71164833	-64.77855333
RMAEXP-67-C	45	43	Red Mud	17.71152667	-64.77882667
RMAEXP-68-C	46	44	Red Mud	17.71133	-64.77905833
RMAEXP-69-C	46	44	Red Mud	17.71107833	-64.77894667
RMAEXP-70-C	48	46	Red Mud	17.710985	-64.7791
RMAEXP-71-C	47	45	Red Mud	17.710705	-64.77902333
RMAEXP-72-C	45	45	Red Mud	17.71076667	-64.77874667
RMAEXP-73-C	51	51	Red Mud	17.7105	-64.77869667
RMAEXP-74-C	49	48	Red Mud	17.71060833	-64.77842167
RMAEXP-75-C	47	45	Red Mud	17.71086333	-64.77854667
RMAEXP-76-C	43	41	Red Mud	17.71112667	-64.77865833
RMAEXP-77-C	45	44	Red Mud	17.71139167	-64.77877333
RMAEXP-78-C	47	45	Red Mud	17.71151333	-64.778485
RMAEXP-79-C	47	46	Red Mud	17.71124167	-64.77842
RMAEXP-80-C	49	47	Red Mud	17.71098167	-64.77835167
RMAEXP-81-C	49	48	Red Mud	17.71070333	-64.778285
RMAEXP-82-C	45	43	Red Mud	17.71078833	-64.77796833
RMAEXP-83-C	46	44	Red Mud	17.71052833	-64.77783333
RMAEXP-84-C	50	49	Red Mud	17.71046	-64.777565
RMAEXP-85-C	47	45	Red Mud	17.71060667	-64.77732667
RMAEXP-86-C	39	39	Red Mud	17.710845	-64.77724167
RMAEXP-87-C	58	55	Red Mud	17.71109833	-64.77739
RMAEXP-88-C	61	58	Red Mud	17.71136333	-64.77747667
RMAEXP-89-C	45	43	Red Mud	17.71155	-64.77768333
RMAEXP-90-C	45	44	Red Mud	17.71149667	-64.77793333

Table 35: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-91-C	47	46	Red Mud	17.711235	-64.77803
RMAEXP-92-C	47	45	Red Mud	17.71100833	-64.777995
RMAEXP-93-C	44	42	Red Mud	17.712125	-64.77814
RMAEXP-94-C	44	42	Red Mud	17.712145	-64.77784167
RMAEXP-95-C	45	43	Red Mud	17.71230167	-64.77759167
RMAEXP-96-C	48	46	Red Mud	17.712335	-64.77731667
RMAEXP-97-C	44	42	Red Mud	17.712345	-64.77704333
RMAEXP-98-C	43	41	Red Mud	17.71226833	-64.77678667
RMAEXP-99-C	45	43	Red Mud	17.712155	-64.77653167
RMAEXP-100-C	48	46	Red Mud	17.712	-64.77627667
RMAEXP-101-C	46	44	Red Mud	17.71178667	-64.77611833
RMAEXP-102-C	44	42	Red Mud	17.711535	-64.77618833
RMAEXP-103-C	44	42	Red Mud	17.71131167	-64.77632
RMAEXP-104-C	44	42	Red Mud	17.71109167	-64.77646833
RMAEXP-105-C	47	46	Red Mud	17.71085333	-64.77657
RMAEXP-106-C	50	48	Red Mud	17.71086333	-64.77683167
RMAEXP-107-C	43	41	Red Mud	17.71063333	-64.77688833
RMAEXP-108-C	38	36	Red Mud	17.71053	-64.776665
RMAEXP-109-C	39	37	Red Mud	17.71122833	-64.776665
RMAEXP-110-C	38	38	Red Mud	17.71116167	-64.77693
RMAEXP-111-C	40	39	Red Mud	17.71137167	-64.77704667
RMAEXP-112-C	43	41	Red Mud	17.71143833	-64.77680667
RMAEXP-113-C	45	43	Red Mud	17.71157	-64.77654667
RMAEXP-114-C	46	44	Red Mud	17.71178167	-64.77666833
RMAEXP-115-C	48	46	Red Mud	17.71176833	-64.77693
RMAEXP-116-C	48	46	Red Mud	17.71196667	-64.77709
RMAEXP-117-C	47	44	Red Mud	17.71203333	-64.77750333
RMAEXP-118-C	46	45	Red Mud	17.71178333	-64.777455
RMAEXP-119-C	46	44	Red Mud	17.71151833	-64.777355
RMAEXP-120-C	43	41	Red Mud	17.71126	-64.77730167

Table 35: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-121-C	38	37	Red Mud	17.71101167	-64.77718667
RMAEXP-122-C	38	37	Red Mud	17.71072667	-64.77717667
RMAEXP-123-C	38	37	Red Mud	17.71046667	-64.77724333
RMAEXP-124-C	41	39	Red Mud	17.71036667	-64.77749667
RMAEXP-125-C	40	40	Red Mud	17.71033167	-64.77777167
RMAEXP-126-C	45	44	Red Mud	17.71182	-64.77803667
RMAEXP-127-C	43	41	Red Mud	17.711945	-64.77790167
RMAEXP-128-C	52	50	Red Mud	17.71044167	-64.77822333
RMAEXP-129-C	56	54	Red Mud	17.71021167	-64.77814
RMAEXP-130-C	50	48	Red Mud	17.71011833	-64.77841333
RMAEXP-131-C	50	48	Red Mud	17.71035	-64.77847
RMAEXP-132-C	38	38	Red Mud	17.71005667	-64.77971833
RMAEXP-133-C	39	38	Red Mud	17.7098	-64.77966
RMAEXP-134-C	47	45	Red Mud	17.709555	-64.779605
RMAEXP-135-C	47	45	Red Mud	17.70935833	-64.77948667
RMAEXP-136-C	46	44	Red Mud	17.70913667	-64.779375
RMAEXP-137-C	46	45	Red Mud	17.70892833	-64.77925
RMAEXP-138-C	46	44	Red Mud	17.70871333	-64.77913
RMAEXP-139-C	46	44	Red Mud	17.70893	-64.78041667
RMAEXP-140-C	47	46	Red Mud	17.70885833	-64.78064833
RMAEXP-141-C	47	47	Red Mud	17.70872	-64.780845
RMAEXP-142-C	42	41	Red Mud	17.708575	-64.78107833
RMAEXP-143-C	43	43	Red Mud	17.708415	-64.7813
RMAEXP-144-C	36	34	Red Mud	17.70830167	-64.781575
RMAEXP-145-C	40	39	Red Mud	17.70827833	-64.78186667
RMAEXP-146-C	44	42	Red Mud	17.708585	-64.78205333
RMAEXP-147-C	44	44	Red Mud	17.70878667	-64.78167667
RMAEXP-148-C	55	50	Red Mud	17.70895167	-64.78131333
RMAEXP-149-C	45	43	Red Mud	17.70907167	-64.78084833
RMAEXP-150-C	33	31	Red Mud	17.70932333	-64.78091167

Table 35: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-151-C	48	45	Red Mud	17.70925167	-64.78118333
RMAEXP-152-C	48	45	Red Mud	17.70911667	-64.78142667
RMAEXP-153-C	33	32	Red Mud	17.70902667	-64.78165833
RMAEXP-154-C	45	43	Red Mud	17.70894333	-64.781935
RMAEXP-155-C	36	35	Red Mud	17.70917667	-64.782025
RMAEXP-156-C	40	38	Red Mud	17.70931333	-64.78177333
RMAEXP-157-C	35	34	Red Mud	17.70940833	-64.78152833
RMAEXP-158-C	33	31	Red Mud	17.70952333	-64.78129167
RMAEXP-159-C	47	44	Red Mud	17.70962333	-64.781045
RMAEXP-160-C	32	30	Red Mud	17.70973167	-64.78078667
RMAEXP-161-C	30	29	Red Mud	17.70982333	-64.78130833
RMAEXP-162-C	32	31	Red Mud	17.71013167	-64.78154167
RMAEXP-163-C	24	22	Red Mud	17.71057167	-64.78187667
Minimum =	**24**	**22**			
Maximum =	**61**	**58**			
Median =	**46**	**44**			
Arithmetic Mean =	**45**	**43**			
One Sigma =	**5.4**	**5.2**			
Two Sigma =	**11**	**10**			

Average Background =	**3.6**	**μR/h**		
Background +/- One Sigma =	**3**	**to**	**4**	**μR/h**
Background +/- Two Sigma =	**2**	**to**	**5**	**μR/h**

Table 36: SAM-940 Gamma Dose Rate Results						
Screening ID	**Reading Type/Location**	**Dose Rate**	**Units**	**Screening Date**	**Detector**	**Probe Type**
BG-S16B	Background/Off-site (WWTP)	4.9	urem/hr	9/21/2011	Gamma	2x2 NaI
BKG09142011	Background/Command Post	0	urem/hr	9/14/2011	Gamma	2x2 NaI
BKG09152011	Background/Command Post	0	urem/hr	9/15/2011	Gamma	2x2 NaI
BKG09162011	Background/Command Post	0	urem/hr	9/16/2011	Gamma	2x2 NaI
BKG09162011pm	Background/Command Post	3.86	urem/hr	9/16/2011	Gamma	2x2 NaI
BKG09192011	Background/Command Post	0	urem/hr	9/19/2011	Gamma	2x2 NaI
BKG09192011pm	Background/Command Post	0	urem/hr	9/19/2011	Gamma	2x2 NaI
BKG09212011	Background/Command Post	0	urem/hr	9/21/2011	Gamma	2x2 NaI
BKG09212011pm	Background/Command Post	0	urem/hr	9/21/2011	Gamma	2x2 NaI
RMA-SD57	RMA/On-Site	39.2	urem/hr	9/21/2011	Gamma	2x2 NaI
RMA-SD58	RMA/On-Site	29.8	urem/hr	9/21/2011	Gamma	2x2 NaI
RMA-WST01	RMA/On-Site	38.2	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST02	RMA/On-Site	53.7	urem/hr	9/15/2011	Gamma	2x2 NaI
RMA-WST03	RMA/On-Site	53.6	urem/hr	9/15/2011	Gamma	2x2 NaI
RMA-WST04	RMA/On-Site	49.8	urem/hr	9/15/2011	Gamma	2x2 NaI
RMA-WST05	RMA/On-Site	61.1	urem/hr	9/15/2011	Gamma	2x2 NaI
RMA-WST07	RMA/On-Site	49.8	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST09B	RMA/On-Site	49.5	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST10B	RMA/On-Site	46.8	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST12B	RMA/On-Site	48.7	urem/hr	9/15/2011	Gamma	2x2 NaI
RMA-WST14B	RMA/On-Site	15.6	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST15	RMA/On-Site	33.9	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST17	RMA/On-Site	43.9	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST18	RMA/On-Site	56.2	urem/hr	9/15/2011	Gamma	2x2 NaI
RMA-WST19	RMA/On-Site	51.7	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WSTR01	RMA/On-Site	62	urem/hr	9/21/2011	Gamma	2x2 NaI
RMA-WSTR02	RMA/On-Site	67.6	urem/hr	9/21/2011	Gamma	2x2 NaI
RMB-WST22	RMB/On-Site	48.2	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST22B	RMB/On-Site	38.6	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST28	RMB/On-Site	57.2	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST29	RMB/On-Site	40.8	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST30B	RMB/On-Site	45.6	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST34B	RMB/On-Site	14.4	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST38	RMB/On-Site	46	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST39	RMB/On-Site	37.4	urem/hr	9/19/2011	Gamma	2x2 NaI

Notes

RMA = Red Mud Disposal Area A

RMB = Red Mud Disposal Area B

WWTP = Waste Water Treatment Plant

urem/hr = micro rem per hour, where rem = Roentgen Equivalent Man

2x2 NaI = 2-inch by 2-inch sodium iodide (NaI) probe

"pm" suffix of some screening readings indicates an afternoon/end of day reading at the Command Post

Table 37: Gamma Spectroscopy Analyses Results of Background Soil Samples Collected Primarily From the Northeast Portion of the Site																	
Field Sample ID	**Lab Sample ID**	**Th-232[(a)]**				**Ra-226[(b)]**				**Ra-228[(c)]**				**U-238[(d)]**			
		Result (pCi/g)	**2 sigma**	**MDC**	**Val. Flag**	**Result (pCi/g)**	**2 sigma**	**MDC**	**Val. Flag**	**Result (pCi/g)**	**2 sigma**	**MDC**	**Val. Flag**	**Result (pCi/g)**	**2 sigma**	**MDC**	**Val. Flag**
BG-S01	B1.11620Z	0.03	0.01	NR		0.06	0.01	NR		0.03	0.01	NR	Q	0.05	0.04	NR	
BG-S01	B1.11620Z (DUP)	0.01	0.01	NR		0.03	0.02	NR		ND	ND	NR	U	NR	NR	NR	U
BG-S07	B1.11621A	0.5	0.2	NR		0.37	0.05	NR		0.53	0.08	NR	Q	NR	NR	NR	U
BG-S08	B1.11622B	0.5	0.2	NR		0.28	0.04	NR		0.39	0.06	NR	Q	NR	NR	NR	U
BG-S09	B1.11623C	0.2	0.1	NR		0.16	0.02	NR		0.16	0.03	NR	Q	0.09	0.06	NR	
BG-S10	B1.11624D	0.4	0.1	NR		0.24	0.04	NR		0.30	0.05	NR	Q	NR	NR	NR	U
BG-S11	B1.11625E	0.2	0.2	NR		0.16	0.03	NR		0.24	0.05	NR	Q	NR	NR	NR	U
BG-S12	B1.11626F	0.8	0.2	NR		0.57	0.07	NR		0.7	0.1	NR	Q	NR	NR	NR	U
BG-S13	B1.11627G	0.5	0.2	NR		0.37	0.05	NR		0.47	0.07	NR	Q	NR	NR	NR	U
BG-S14	B1.11628H	0.5	0.2	NR		0.44	0.06	NR		0.47	0.07	NR	Q	NR	NR	NR	U
BG-S15	B1.11629J	0.3	0.1	NR		0.40	0.05	NR		0.25	0.04	NR	Q	2	1	NR	
BG-S16A	B1.11630B	0.1	0.1	NR		0.24	0.03	NR		0.19	0.03	NR	Q	NR	NR	NR	U
Range (pCi/g) =		0.01 to 0.76				0.03 to 0.57				0.03 to 0.74				0.05 to 2.17			
Average (pCi/g) =		0.33				0.28				0.34				0.77			
Sigma (pCi/g) =		0.22				0.16				0.20				1.21			

(a) Estimated using the Bi-212 or when Bi-212 is not reported using the Pb-212 or Tl-208 with the assumption of secular equilibrium..
(b) Estimated using the Bi-214 or when Bi-214 is not reported using the Pb-214 with the assumption of secular equilibrium.
(c) Estimated using the Ac-228 energy peak.
(d) Estimated using the Pa-234m or when Pa-234m is not reported using the Th-234 with the assumption of secular equilibrium.
NR - Not Reported, NA - Not Applicable, Q= No duplicate result available
ND - Non-Detectable (DUP) - Laboratory Duplicate
U - Isotope was not detected above the noted MDC

Table 38: Alpha Spectroscopy Analyses of Background Soil Samples Collected Primarily from the Northeast Portion of the Site

Field Sample ID	Lab Sample ID	Th-230				Th-232				U-234				U-235				U-238			
		Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
BG-S01	B1.11620Z	0.1	0.1	0.1	J	0.04	0.07	0.08	U	0.04	0.05	0.07	U	0.01	0.05	0.09	U	0.12	0.08	0.05	
BG-S07	B1.11621A	0.6	0.2	0.04		0.5	0.2	0.08		0.2	0.1	0.04	J	0.01	0.03	0.05	U	0.3	0.1	0.07	
BG-S07	B1.11621A (DUP)	0.7	0.2	0.04		0.5	0.2	0.07		0.3	0.1	0.04	J	0.03	0.05	0.05	U	0.3	0.1	0.06	
BG-S08	B1.11622B	0.4	0.1	0.1		0.4	0.1	0.04		0.2	0.1	0.07	J	0.06	0.06	0.07	U	0.2	0.1	0.06	
BG-S09	B1.11623C	0.2	0.1	0.1	J	0.1	0.1	0.04		0.3	0.1	0.06	J	0.01	0.04	0.06	U	0.15	0.09	0.06	
BG-S10	B1.11624D	0.5	0.2	0.1		0.3	0.1	0.09		0.2	0.1	0.06	J	0.02	0.04	0.05	U	0.13	0.08	0.06	
BG-S11	B1.11625E	0.3	0.1	0.05	J	0.3	0.1	0.08		0.2	0.1	0.04	J	0.03	0.05	0.05	U	0.20	0.09	0.06	
BG-S12	B1.11626F	0.9	0.2	0.1		0.7	0.2	0.08		0.3	0.1	0.07	J	0.00	0.04	0.08	U	0.3	0.1	0.06	
BG-S13	B1.11627G	0.4	0.1	0.04		0.4	0.1	0.06		0.2	0.1	0.05	J	0.04	0.05	0.06	U	0.2	0.1	0.06	
BG-S14	B1.11628H	0.5	0.2	0.04		0.5	0.2	0.07		0.3	0.1	0.04	J	0.04	0.05	0.06	U	0.3	0.1	0.05	
BG-S15	B1.11629J	0.6	0.2	0.05		0.3	0.1	0.08		0.3	0.1	0.07	J	0.02	0.04	0.05	U	0.3	0.1	0.04	
BG-S16A	B1.11630B	0.3	0.1	0.1	J	0.2	0.1	0.08		0.2	0.1	0.07	J	0.00	0.04	0.08	U	0.2	0.1	0.07	
	Range (pCi/g) =	0.15	to	0.86		0.04	to	0.73		0.04	to	0.33		0.00	to	0.06		0.12	to	0.34	
	Average (pCi/g) =	0.46				0.36				0.23				0.02				0.23			
	Sigma (pCi/g) =	0.22				0.19				0.07				0.02				0.07			

J = an estimated value
U = isotope was not detected above the noted MDC
(DUP) - Laboratory Duplicate

Table 39: Radiological results of Background Soil Samples Collected Primarily from the Northeast Portion of the Site

Field Sample ID	Lab Sample ID	Th-230[a]			Th-232[a]			Ra-226[b]			Ra-228[b]			U-234[a]			U-235[a]			U-238[a]		
		Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC
BG-S01	B1.11620Z	0.15	0.1	0.13	0.04	0.07	0.08	0.06	0.01	NR	0.03	0.01	NR	0.04	0.05	0.07	0.01	0.05	0.09	0.12	0.08	0.05
BG-S01	B1.11620Z (DUP)	NA	NA	NA	NA	NA	NA	0.03	0.02	NR	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-S07	B1.11621A	0.62	0.2	0.04	0.53	0.2	0.08	0.37	0.05	NR	0.53	0.08	NR	0.24	0.1	0.04	0.01	0.03	0.05	0.28	0.1	0.07
BG-S07	B1.11621A (DUP)	0.68	0.2	0.04	0.50	0.2	0.07	NA	NA	NA	NA	NA	NA	0.29	0.1	0.04	0.03	0.05	0.05	0.3	0.1	0.06
BG-S08	B1.11622B	0.36	0.1	0.07	0.44	0.1	0.04	0.28	0.04	NR	0.39	0.06	NR	0.23	0.1	0.07	0.06	0.06	0.07	0.24	0.1	0.06
BG-S09	B1.11623C	0.15	0.1	0.06	0.15	0.08	0.04	0.16	0.02	NR	0.16	0.03	NR	0.26	0.1	0.06	0.01	0.04	0.06	0.15	0.09	0.06
BG-S10	B1.11624D	0.51	0.2	0.06	0.25	0.1	0.09	0.24	0.04	NR	0.30	0.05	NR	0.22	0.1	0.06	0.02	0.04	0.05	0.13	0.08	0.06
BG-S11	B1.11625E	0.29	0.1	0.05	0.27	0.1	0.08	0.16	0.03	NR	0.24	0.05	NR	0.24	0.1	0.04	0.03	0.05	0.05	0.2	0.09	0.06
BG-S12	B1.11626F	0.86	0.2	0.07	0.73	0.2	0.08	0.57	0.07	NR	0.74	0.1	NR	0.26	0.1	0.07	0.00	0.04	0.08	0.31	0.1	0.06
BG-S13	B1.11627G	0.43	0.1	0.04	0.37	0.1	0.06	0.37	0.05	NR	0.47	0.07	NR	0.16	0.1	0.05	0.04	0.05	0.06	0.21	0.09	0.06
BG-S14	B1.11628H	0.53	0.2	0.04	0.53	0.2	0.07	0.44	0.06	NR	0.47	0.07	NR	0.33	0.1	0.04	0.04	0.05	0.06	0.26	0.1	0.05
BG-S15	B1.11629J	0.63	0.2	0.05	0.27	0.1	0.08	0.4	0.05	NR	0.25	0.04	NR	0.27	0.1	0.07	0.02	0.04	0.05	0.34	0.1	0.04
BG-S16A	B1.11630B	0.31	0.1	0.06	0.24	0.1	0.08	0.24	0.03	NR	0.19	0.03	NR	0.21	0.1	0.07	0.00	0.04	0.08	0.22	0.1	0.07
	Range (pCi/g) =	0.15	to	0.86	0.04	to	0.73	0.03	to	0.57	0.03	to	0.74	0.04	to	0.33	0.00	to	0.06	0.12	to	0.34
	Average (pCi/g) =	0.46			0.36			0.28			0.34			0.23			0.02			0.23		
	Sigma (pCi/g) =	0.22			0.19			0.16			0.20			0.07			0.02			0.07		

(a) Isoptoic analyses results as reported in Table 5-3B
(b) Gamma spectroscopy analyses results as reported in Table 5-3A
(DUP) - Laboratory Duplicate

Table 40: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																		
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST01A	B1.11274B	Surface waste sample from Red Mud Disposal Area A	11	1	NR		1.6	0.2	NR		10	1	NR		2	1	NR	
RMA-WST02A	B1.11275C	Surface waste sample from Red Mud Disposal Area A	15	2	NR		3.2	0.4	NR		14	2	NR		4	2	NR	
RMA-WST03A	B1.11276D	Surface waste sample from Red Mud Disposal Area A	15	2	NR		3.4	0.4	NR		14	2	NR		5	2	NR	
RMA-WST04A	B1.11277E	Surface waste sample from Red Mud Disposal Area A	12	1	NR		2.6	0.3	NR		11	1	NR		3	2	NR	
RMA-WST06A	B1.11278F	Surface waste sample from Red Mud Disposal Area A	14	2	NR		3.8	0.4	NR		13	1	NR		5	1	NR	
RMA-WST07A	B1.11279G	Surface waste sample from Red Mud Disposal Area A	15	2	NR		3.3	0.4	NR		14	2	NR		4	2	NR	
RMA-WST09A	B1.11280Z	Surface waste sample from Red Mud Disposal Area A	13	2	NR		2.6	0.3	NR		13	2	NR		4	2	NR	
RMA-WST09A	B1.11280Z (DUP)	Lab duplicate of RMA-WST09A	13	2	NR		2.6	0.3	NR		13	1	NR		2	1	NR	
RMA-WST09B	B1.11281A	Subsurface waste sample from Red Mud Disposal Area A; depth = 7'	17	2	NR		4.1	0.5	NR		16	2	NR		3	2	NR	
RMA-WST11A	B1.11282B	Surface waste sample from Red Mud Disposal Area A	16	2	NR		3.8	0.4	NR		15	2	NR		5	2	NR	
RMA-WST12A	B1.11283C	Surface waste sample from Red Mud Disposal Area A	21	2	NR		3.5	0.4	NR		19	2	NR		4	2	NR	
RMA-WST14A	B1.11284D	Surface waste sample from Red Mud Disposal Area A	11	1	NR		2.8	0.3	NR		11	1	NR		3	2	NR	
RMA-WST14B	B1.11285E	Subsurface waste sample from Red Mud Disposal Area A; depth = 3.5'	11	1	NR		2.2	0.3	NR		11	1	NR		2	2	NR	
RMA-WST15A	B1.11286F	Surface waste sample from Red Mud Disposal Area A	11	1	NR		2.5	0.3	NR		11	1	NR		2	2	NR	
RMA-WST16A	B1.11287G	Surface waste sample from Red Mud Disposal Area A	13	2	NR		3.1	0.4	NR		13	2	NR		4	2	NR	
RMA-WST16B	B1.11288H	Subsurface waste sample from Red Mud Disposal Area A; depth = 7.5'	13	2	NR		3.1	0.4	NR		13	2	NR		3	2	NR	
RMA-WST17A	B1.11289J	Surface waste sample from Red Mud Disposal Area A	14	2	NR		3.3	0.4	NR		13	2	NR		5	1	NR	
RMA-WST17B	B1.11290B	Subsurface waste sample from Red Mud Disposal Area A; depth = 3'	12	1	NR		3.0	0.4	NR		12	1	NR		3	1	NR	
RMA-WST18A	B1.11291C	Surface waste sample from Red Mud Disposal Area A	16	2	NR		3.9	0.5	NR		15	2	NR		6	2	NR	
RMA-WST19A	B1.11292D	Surface waste sample from Red Mud Disposal Area A	16	2	NR		3.5	0.4	NR		15	2	NR		5	2	NR	
RMA-WST20A	B1.11293E	Surface waste sample from Red Mud Disposal Area A	16	2	NR		3.3	0.4	NR		15	2	NR		4	2	NR	
ADP-WST41A	B1.11405U	Surface waste sample from Ash Disposal area	0.9	0.3	NR		1.3	0.2	NR		0.9	0.1	NR		3	2	NR	

Table 40: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																		
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
ADP-WST41B	B1.11406V	Subsurface waste sample from Ash Disposal area; depth = 4'	0.4	0.4	NR		0.6	0.1	NR		0.7	0.1	NR		1	1	NR	
ADP-WST41C	B1.11407W	Duplicate of ADP-WST41B	0.7	0.3	NR		0.8	0.1	NR		0.8	0.1	NR		NR	NR	NR	
ADP-WST42A	B1.11408X	Surface waste sample from Ash Disposal area	1.0	0.3	NR		1.6	0.2	NR		1.0	0.1	NR		2	2	NR	
ADP-WST42B	B1.11409Y	Subsurface waste sample from Ash Disposal area; depth = 4'	1.0	0.2	NR		1.3	0.2	NR		0.8	0.1	NR		1.1	0.3	NR	
FBS-WST44A	B1.11410Q	Surface waste red mud sample from pile in Former Bauxite Storage shed	5.6	0.7	NR		1.1	0.1	NR		6	1	NR		1.1	0.3	NR	
FBS-WST44A	B1.11410Q (DUP)	Lab duplicate of FBS-WST44A	5.8	0.7	NR		1.1	0.1	NR		6	1	NR		2	2	NR	
FBS-WST45A	B1.11411R	Surface waste red mud sample from pile in Former Bauxite Storage shed	10	1	NR		2.1	0.3	NR		10	1	NR		3	1	NR	
FBS-WST46A	B1.11412T	Surface waste red mud sample from pile in Former Bauxite Storage shed	7	1	NR		1.3	0.2	NR		8	1	NR		1.4	0.3	NR	
RMB-WST24A	B1.11413U	Surface waste sample from Red Mud Disposal Area B	9	1	NR		3.5	0.4	NR		9	1	NR		2	2	NR	
RMB-WST28A	B1.11414V	Surface waste sample from Red Mud Disposal Area B	25	3	NR		5.3	0.6	NR		24	3	NR		5	3	NR	
RMB-WST29A	B1.11415W	Surface waste sample from Red Mud Disposal Area B	7.7	0.9	NR		2.9	0.3	NR		8	1	NR		4	1	NR	
RMB-WST30A	B1.11416X	Surface waste sample from Red Mud Disposal Area B	22	3	NR		4.8	0.6	NR		21	3	NR		4	3	NR	
RMB-WST30B	B1.11417Y	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	17	2	NR		9	1	NR		16	2	NR		7	2	NR	
RMB-WST32A	B1.11418Z	Surface waste sample from Red Mud Disposal Area B	7.0	0.9	NR		2.3	0.3	NR		7	1	NR		4	2	NR	
RMB-WST34A	B1.11419A	Surface waste sample from Red Mud Disposal Area B	10	1	NR		4.0	0.5	NR		10	1	NR		2	2	NR	
RMB-WST36A	B1.11420T	Surface waste sample from Red Mud Disposal Area B	23	3	NR		4.7	0.6	NR		22	3	NR		5	3	NR	
RMB-WST38A	B1.11421U	Surface waste sample from Red Mud Disposal Area B	26	3	NR		4.9	0.6	NR		25	3	NR		6	3	NR	
RMB-WST39A	B1.11422V	Surface waste sample from Red Mud Disposal Area B	12	2	NR		4.5	0.5	NR		12	1	NR		5	3	NR	
RMB-WST39B	B1.11423W	Subsurface waste sample from Red Mud Disposal Area B; depth = 3'	19	2	NR		5.0	0.6	NR		19	2	NR		7	3	NR	
RMB-WST40A	B1.11424X	Surface waste sample from Red Mud Disposal Area B; red sand area	9	1	NR		0.9	0.1	NR		9	1	NR		NR	NR	NR	
RMA-WST01B	B1.11425Y	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	12	1	NR		3.0	0.4	NR		11	1	NR	Q	5	2	NR	
RMA-WST01C	B1.11426Z	Duplicate of RMA-WST01B	12	1	NR		3.0	0.3	NR		11	1	NR	Q	5	2	NR	

Table 40: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																		
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST03B	B1.11427A	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	15	2	NR		3.4	0.4	NR		15	2	NR	Q	4	2	NR	
RMA-WST10B	B1.11428B	Subsurface waste sample from Red Mud Disposal Area A; depth = 5-6'	17	2	NR		2.9	0.3	NR		16	2	NR	Q	4	2	NR	
RMA-WST12B	B1.11429C	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	25	3	NR		4.2	0.5	NR		24	3	NR	Q	7	3	NR	
ADP-SD49	B1.11619G	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	1	0	NR		0.8	0.1	NR		1.3	0.2	NR	Q	2	2	NR	
LCP-SD33	B1.11631C	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	0	0	NR		0.1	0.0	NR		0.3	0.1	NR	Q	2	1	NR	
RMA-WST13A	B1.11632D	Surface waste sample from Red Mud Disposal Area A	14	2	NR		3.0	0.4	NR		13	1	NR	Q	4	1	NR	
RMA-WST13B	B1.11633E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	14	2	NR		4.6	0.5	NR		14	2	NR	Q	8	2	NR	
RMA-WST20B	B1.11634F	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	14	2	NR		2.8	0.3	NR		13	2	NR		3	2	NR	
RMA-WSTR01A	B1.11635G	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	18	2	NR		4.7	0.6	NR		17	2	NR		3	2	NR	
RMA-WSTR02A	B1.11636H	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	15	2	NR		3.6	0.4	NR		14	2	NR		4	2	NR	
RMS-SD45	B1.11637J	Sediment sample from same location as RMS-SW45; red clay with some silt and fine sand	13	2	NR		3.3	0.4	NR		12	1	NR		3	2	NR	
UCP-SD35	B1.11638K	Sediment sample from same location as UCP-SW35; red mud in mud flat sediments	2.9	0.4	NR		0.5	0.1	NR		2.4	0.3	NR		3	2	NR	
UCP-SD37	B1.11639L	Sediment sample from same location as UCP-SW37; red mud, heavy silting	8	1	NR		1.8	0.2	NR		7	1	NR		5	2	NR	
UCP-SD39	B1.11640D	Sediment sample from same location as UCP-SW39; red clay with some fine sand, soft	13	2	NR		3.1	0.4	NR		13	2	NR		4	2	NR	
UCP-SD39	B1.11640D (DUP)	Lab duplicate of UCP-SD39	14	2	NR		3.2	0.4	NR		13	2	NR		4	2	NR	
RMA-WST02B	B1.11641E	Subsurface waste sample from Red Mud Disposal Area A; depth = 2-4'	15	2	NR		3.4	0.4	NR		15	2	NR		5	3	NR	

Table 40: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																		
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST04B	B1.11642F	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	11	1	NR		2.3	0.3	NR		11	1	NR		3	2	NR	
RMA-WST05A	B1.11643G	Surface waste sample from Red Mud Disposal Area A	17	2	NR		3.9	0.5	NR		16	2	NR		4	3	NR	
RMA-WST05B	B1.11644H	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	17	2	NR		3.8	0.5	NR		16	2	NR		4	3	NR	
RMA-WST06B	B1.11645J	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	16	2	NR		4.5	0.5	NR		15	2	NR		13	3	NR	
RMA-WST07B	B1.11646K	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	18	2	NR		6.7	0.8	NR		18	2	NR		7	3	NR	
RMA-WST08A	B1.11647L	Surface waste sample from Red Mud Disposal Area A	14	2	NR		2.7	0.3	NR		12	1	NR		3	2	NR	
RMA-WST10A	B1.11648M	Surface waste sample from Red Mud Disposal Area A	11	1	NR		2.3	0.3	NR		11	1	NR		2	2	NR	
RMA-WST11B	B1.11649N	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	16	2	NR		3.4	0.4	NR		16	2	NR		5	3	NR	
RMA-WST11C	B1.11650F	Duplicate of RMA-WST11A	16	2	NR		3.9	0.5	NR		16	2	NR		12	3	NR	
RMA-WST19B	B1.11651G	Subsurface waste sample from Red Mud Disposal Area A; depth = 5'	13	2	NR		3.0	0.4	NR		12	1	NR		3	3	NR	
RMB-WST22A	B1.11652H	Surface waste sample from Red Mud Disposal Area B; sandy red mud	15	2	NR		7.5	0.9	NR		14	2	NR		7	3	NR	
RMB-WST22B	B1.11653J	Subsurface waste sample from Red Mud Disposal Area B; sandy red mud; depth = 10'	9	1	NR		4.6	0.5	NR		9	1	NR		6	2	NR	
RMB-WST23A	B1.11654K	Surface waste sample from Red Mud Disposal Area B	14	2	NR		4.9	0.6	NR		13	2	NR		5	2	NR	
RMB-WST23B	B1.11655L	Subsurface waste sample from Red Mud Disposal Area B; granular material; depth = 7.5'	11	1	NR		4.9	0.6	NR		10	1	NR		6	1	NR	
RMB-WST23C	B1.11656M	Duplicate of RMB-WST23B	10	1	NR		4.4	0.5	NR		9	1	NR		7	2	NR	
RMB-WST28B	B1.11657N	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	15	2	NR		7.2	0.8	NR		14	2	NR		8	3	NR	
RMB-WST29B	B1.11658P	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5'	13	2	NR	J	5.9	0.7	NR	J	13	2	NR	J	7	3	NR	J
RMB-WST34B	B1.11659Q	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5-4'	14	2	NR		5.0	0.6	NR		13	2	NR		4	2	NR	
RMB-WST37A	B1.11660H	Surface waste sample from Red Mud Disposal Area B	13	2	NR		5.1	0.6	NR		12	1	NR		5	2	NR	
RMB-WST37A	B1.11660H (DUP)	Lab duplicate of RMB-WST37A	13	2	NR		5.3	0.6	NR		12	1	NR		5	2	NR	

Table 40: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																		
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[(a)]				Ra-226[(b)]				Ra-228[(c)]				U-238[(d)]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMB-WST37B	B1.11661J	Subsurface waste sample from Red Mud Disposal Area B; depth = 8'	16	2	NR		4.6	0.5	NR		16	2	NR		5	3	NR	
FBS-WST43A	B1.11720C	Surface waste red mud sample from drainage channel behind Former Bauxite Storage shed	5	1	NR		1.0	0.1	NR		5	1	NR		1	1	NR	
RMA-SD57	B1.11721D	*Sample from red mud depositional area south of Area A*	12	1	NR		2.7	0.3	NR		11	1	NR		3	2	NR	
RMA-SD58	B1.11722E	*Sample from red mud depositional area south of Area A*	7	1	NR		2.0	0.2	NR		8	1	NR		3	1	NR	
RMA-SD59	B1.11723F	*Sample from red mud depositional area south of Area A*	12	1	NR		3.1	0.4	NR		11	1	NR		4	2	NR	
RMA-SD60	B1.11724G	*Sample from red mud depositional area south of Area A*	11	1	NR		2.6	0.3	NR		11	1	NR		2	1	NR	
RMA-SD61	B1.11725H	*Sample from red mud depositional area south of Area A*	5	1	NR		0.8	0.1	NR		5	1	NR		1	1	NR	
RMA-SD61	B1.11725H (DUP)	*Lab duplicate of RMA-SD61*	5	1	NR		0.9	0.1	NR		5	1	NR		2	1	NR	
RMA-SD62	B1.11726J	*Sample from red mud depositional area south of Area A*	11	1	NR		2.4	0.3	NR		10	1	NR		2	1	NR	
RMA-SD63	B1.11727K	*Duplicate of RMA-SD62*	10	1	NR		2.2	0.3	NR		9	1	NR		2	1	NR	
RMA-WST06B(2)	B1.11728L	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	13	2	NR		4.0	0.5	NR		13	2	NR		2	2	NR	
RMA-WST08B	B1.11729M	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	16	2	NR		3.7	0.4	NR		16	2	NR		4	2	NR	
RMA-WST18B	B1.11730E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	17	2	NR		3.7	0.4	NR		17	2	NR		3	3	NR	

(a) Estimated using the Bi-212 or when Bi-212 is not reported using the Pb-212 or Tl-208 with the assumption of secular equilibrium..
(b) Estimated using the Bi-214 or when Bi-214 is not reported using the Pb-214 with the assumption of secular equilibrium.
(c) Estimated using the Ac-228 energy peak.
(d) Estimated using the Pa-234m or when Pa-234m is not reported using the Th-234 with the assumption of secular equilibrium.
NR - Not Reported, NA - Not Applicable, J - Reported value is estimated, Q - duplicate analysis not reported
(DUP) - Laboratory Duplicate

Table 41: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																					
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST01A	B1.11274B	Surface waste sample from Red Mud Disposal Area A	1.0	0.3	0.1		9	1	0.1		1.2	0.3	0.1		0.02	0.05	0.08	U	1.3	0.3	0.06	
RMA-WST02A	B1.11275C	Surface waste sample from Red Mud Disposal Area A	3.4	0.6	0.1		14	2	0.1		3.0	0.5	0.05		0.2	0.1	0.08		3.4	0.6	0.08	
RMA-WST02A	B1.11275C (DUP)	Lab duplicate of RMA-WST02A	3.5	0.6	0.1		13	2	0.1		2.8	0.5	0.1		0.1	0.1	0.06		3.2	0.5	0.08	
RMA-WST03A	B1.11276D	Surface waste sample from Red Mud Disposal Area A	3.3	0.6	0.1		14	2	0.1		3.9	0.6	0.1		0.2	0.1	0.06		3.9	0.6	0.05	
RMA-WST04A	B1.11277E	Surface waste sample from Red Mud Disposal Area A	2.5	0.5	0.1		11	1	0.1		2.4	0.4	0.1		0.2	0.1	0.06		2.7	0.5	0.05	
RMA-WST06A	B1.11278F	Surface waste sample from Red Mud Disposal Area A	3.9	0.6	0.1		12	2	0.1		4.4	0.7	0.1		0.3	0.2	0.10		3.6	0.6	0.08	
RMA-WST07A	B1.11279G	Surface waste sample from Red Mud Disposal Area A	3.2	0.6	0.1	J	13	2	0.1	J	4.9	0.7	0.1		0.2	0.1	0.08		3.8	0.6	0.08	
RMA-WST09A	B1.11280Z	Surface waste sample from Red Mud Disposal Area A	2.0	0.4	0.1		10	1	0.1		2.1	0.4	0.1		0.1	0.1	0.11		2.2	0.4	0.05	
RMA-WST09B	B1.11281A	Subsurface waste sample from Red Mud Disposal Area A; depth = 7'	3.5	0.6	0.1		14	2	0.2		3.4	0.5	0.1		0.2	0.1	0.07		3.4	0.5	0.08	
RMA-WST11A	B1.11282B	Surface waste sample from Red Mud Disposal Area A	3.6	0.6	0.1		14	2	0.1		3.5	0.6	0.1		0.3	0.1	0.06		3.1	0.5	0.07	
RMA-WST12A	B1.11283C	Surface waste sample from Red Mud Disposal Area A	3.3	0.6	0.2		16	2	0.2		2.7	0.5	0.05		0.2	0.1	0.06		2.6	0.5	0.06	
RMA-WST14A	B1.11284D	Surface waste sample from Red Mud Disposal Area A	1.8	0.4	0.1		9	1	0.1		1.4	0.3	0.1		0.1	0.1	0.07		1.5	0.3	0.04	
RMA-WST14A	B1.11284D (DUP)	Lab duplicate of RMA-WST14A	2.2	0.5	0.1		9	1	0.1		1.6	0.3	0.1		0.1	0.1	0.06		1.4	0.3	0.06	
RMA-WST14B	B1.11285E	Subsurface waste sample from Red Mud Disposal Area A; depth = 3.5'	2.3	0.5	0.1		11	1	0.1		1.6	0.3	0.1		0.0	0.1	0.05	U	1.9	0.3	0.06	
RMA-WST15A	B1.11286F	Surface waste sample from Red Mud Disposal Area A	1.9	0.4	0.1		9	1	0.2		1.4	0.3	0.1		0.2	0.1	0.08		1.4	0.3	0.06	
RMA-WST16A	B1.11287G	Surface waste sample from Red Mud Disposal Area A	2.3	0.5	0.1		10	1	0.1		1.6	0.3	0.1		0.1	0.1	0.07	B	2.1	0.4	0.08	
RMA-WST16B	B1.11288H	Subsurface waste sample from Red Mud Disposal Area A; depth = 7.5'	2.3	0.5	0.1		11	1	0.2		1.8	0.4	0.1		0.1	0.1	0.08		2.2	0.4	0.09	
RMA-WST17A	B1.11289J	Surface waste sample from Red Mud Disposal Area A	2.9	0.5	0.2		11	1	0.1		2.8	0.6	0.1		0.2	0.1	0.12		2.5	0.5	0.1	
RMA-WST17B	B1.11290B	Subsurface waste sample from Red Mud Disposal Area A; depth = 3'	2.7	0.5	0.1		9	1	0.1		1.5	0.3	0.1		0.1	0.1	0.07		2.1	0.4	0.07	
RMA-WST18A	B1.11291C	Surface waste sample from Red Mud Disposal Area A	3.8	0.7	0.1		14	2	0.1		6.1	0.9	0.1		0.3	0.1	0.07		5.7	0.8	0.07	
RMA-WST19A	B1.11292D	Surface waste sample from Red Mud Disposal Area A	3.8	0.6	0.1		13	1	0.1		3.0	0.5	0.1		0.2	0.1	0.07		2.8	0.5	0.08	
RMA-WST20A	B1.11293E	Surface waste sample from Red Mud Disposal Area A	3.6	0.6	0.1		12	1	0.2		4.2	0.6	0.05		0.1	0.1	0.05		3.8	0.6	0.06	
ADP-WST41A	B1.11405U	Surface waste sample from Ash Disposal area	1.5	0.3	0.04		1	0.2	0.04		1.4	0.3	0.1		0.1	0.1	0.04		1.4	0.3	0.04	
ADP-WST41B	B1.11406V	Subsurface waste sample from Ash Disposal area; depth = 4'	0.6	0.1	0.02		1	0.1	0.02		0.6	0.1	0.02		0.04	0.03	0.02	J	0.6	0.1	0.02	
ADP-WST41C	B1.11407W	Duplicate of ADP-WST41B	0.9	0.1	0.03	J	1	0.1	0.03	J	0.7	0.1	0.02		0.02	0.02	0.02		0.6	0.1	0.02	
ADP-WST41C	B1.11407W (DUP)	Lab duplicate of RMA-WST41C	0.7	0.1	0.03	J	1	0.1	0.02	J	0.8	0.2	0.03		0.04	0.03	0.04		0.7	0.1	0.02	
ADP-WST42A	B1.11408X	Surface waste sample from Ash Disposal area	1.9	0.3	0.1		1	0.2	0.1		1.5	0.3	0.1		0.1	0.1	0.07	U	1.4	0.3	0.07	

Table 41: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
ADP-WST42B	B1.11409Y	Subsurface waste sample from Ash Disposal area; depth = 4'	1.3	0.2	0.05		1	0.1	0.04		1.1	0.2	0.03		0.04	0.04	0.03		1.1	0.2	0.03	
FBS-WST44A	B1.11410Q	Surface waste red mud sample from pile in Former Bauxite Storage shed	1.0	0.2	0.05		5	1	0.1		0.9	0.2	0.1		0.1	0.1	0.05		0.7	0.2	0.07	
FBS-WST45A	B1.11411R	Surface waste red mud sample from pile in Former Bauxite Storage shed	2.3	0.4	0.04		10	1	0.1		2.6	0.4	0.1		0.1	0.1	0.07	U	2.4	0.4	0.06	
FBS-WST46A	B1.11412T	Surface waste red mud sample from pile in Former Bauxite Storage shed	1.5	0.3	0.04		8	1	0.04		1.2	0.3	0.1		0.1	0.1	0.05		1.2	0.3	0.07	
RMB-WST24A	B1.11413U	Surface waste sample from Red Mud Disposal Area B	3.2	0.5	0.1	J	8	1	0.1	J	2.1	0.4	0.1		0.1	0.1	0.06		1.8	0.4	0.05	
RMB-WST28A	B1.11414V	Surface waste sample from Red Mud Disposal Area B	5.1	0.7	0.1		21	2	0.1		2.4	0.4	0.1		0.2	0.1	0.06		2.7	0.5	0.05	
RMB-WST29A	B1.11415W	Surface waste sample from Red Mud Disposal Area B	3.1	0.5	0.05		7	1	0.1		2.2	0.4	0.05		0.1	0.1	0.09	U	1.6	0.3	0.09	
RMB-WST30A	B1.11416X	Surface waste sample from Red Mud Disposal Area B	4.5	0.6	0.1		17	2	0.1		3.2	0.5	0.1		0.1	0.1	0.07		3.3	0.5	0.07	
RMB-WST30B	B1.11417Y	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	9	1.0	0.1	J	14	2	0.05		4.8	0.7	0.1		0.4	0.2	0.06		4.8	0.7	0.06	
RMB-WST32A	B1.11418Z	Surface waste sample from Red Mud Disposal Area B	2.1	0.3	0.04	J	6	1	0.1	J	3.2	0.5	0.1		0.3	0.1	0.05		3.0	0.5	0.05	
RMB-WST34A	B1.11419A	Surface waste sample from Red Mud Disposal Area B	3.0	0.5	0.1		9	1	0.05		1.7	0.3	0.05		0.1	0.1	0.09		1.1	0.3	0.05	
RMB-WST36A	B1.11420T	Surface waste sample from Red Mud Disposal Area B	5.2	0.7	0.1		19	2	0.1		2.9	0.5	0.1		0.2	0.1	0.08	J	2.7	0.4	0.04	
RMB-WST38A	B1.11421U	Surface waste sample from Red Mud Disposal Area B	4.6	0.6	0.1	J	21	2	0.1		3.3	0.5	0.1		0.2	0.1	0.08		3.2	0.5	0.07	
RMB-WST39A	B1.11422V	Surface waste sample from Red Mud Disposal Area B	4.4	0.6	0.04		11	1	0.04		2.8	0.5	0.1		0.1	0.1	0.05	J	3.1	0.5	0.06	
RMB-WST39B	B1.11423W	Subsurface waste sample from Red Mud Disposal Area B; depth = 3'	5.5	0.7	0.1		16	2	0.1		5.4	0.8	0.1		0.2	0.1	0.08	J	4.9	0.7	0.06	
RMB-WST40A	B1.11424X	Surface waste sample from Red Mud Disposal Area B; red sand area	1.1	0.3	0.1		10	1	0.1		1.1	0.2	0.1		0.1	0.1	0.06	U	0.8	0.2	0.05	J
RMA-WST01B	B1.11425Y	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	1.5	0.3	0.1		5	1	0.1		1.2	0.2	0.04		0.1	0.1	0.08		1.4	0.3	0.06	
RMA-WST01C	B1.11426Z	Duplicate of RMA-WST01B	3.0	0.5	0.05		11	1	0.1		2.8	0.4	0.1		0.1	0.1	0.08		2.5	0.4	0.04	
RMA-WST03B	B1.11427A	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	3.4	0.5	0.1		13	1	0.1		2.2	0.4	0.1		0.2	0.1	0.07		2.6	0.4	0.08	
RMA-WST10B	B1.11428B	Subsurface waste sample from Red Mud Disposal Area A; depth = 5-6'	2.8	0.4	0.1		16	2	0.1		2.6	0.4	0.05		0.2	0.1	0.05		2.4	0.4	0.07	
RMA-WST12B	B1.11429C	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	4.0	0.5	0.1		22	2	0.1		3.6	0.5	0.04		0.2	0.1	0.06		3.1	0.5	0.06	
ADP-SD49	B1.11619G	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	1.0	0.2	0.03		1	0.2	0.04		0.8	0.2	0.1		0.05	0.05	0.05		0.7	0.2	0.03	
LCP-SD33	B1.11631C	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	0.3	0.2	0.1	J	0.4	0.2	0.1	J	3.7	0.5	0.05		0.2	0.1	0.06		3.4	0.5	0.06	
RMA-WST13A	B1.11632D	Surface waste sample from Red Mud Disposal Area A	3.6	0.5	0.1		13	1	0.1		2.8	0.5	0.1		0.1	0.1	0.06		2.7	0.5	0.09	

Table 41: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST13B	B1.11633E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	4.5	0.6	0.1		13	1	0.1		3.7	0.6	0.1		0.2	0.1	0.07		3.6	0.6	0.05	
RMA-WST20B	B1.11634F	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	2.5	0.5	0.1		12	1	0.1		2.2	0.5	0.1		0.0	0.1	0.14	U	1.6	0.4	0.1	
RMA-WST20B	B1.11634F (DUP)	Lab duplicate of RMA-WST20B	2.5	0.5	0.1		11	1	0.2		2.2	0.5	0.2		0.2	0.1	0.11		2.1	0.5	0.1	
RMA-WSTR01A	B1.11635G	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	3.0	0.6	0.1		14	2	0.1		2.1	0.5	0.1		0.2	0.1	0.10		1.6	0.4	0.1	
RMA-WSTR02A	B1.11636H	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	3.0	0.6	0.1		14	2	0.1		2.1	0.5	0.2		0.1	0.1	0.11	U	2.5	0.5	0.1	
RMS-SD45	B1.11637J	Sediment sample from same location as RMS-SW45; red clay with some silt and fine sand	2.0	0.4	0.1		10	1	0.1		2.0	0.4	0.1		0.1	0.1	0.15	U	1.8	0.4	0.2	
UCP-SD35	B1.11638K	Sediment sample from same location as UCP-SW35; red mud in mud flat sediments	0.9	0.3	0.1		3	1	0.1		3.3	0.6	0.1		0.2	0.1	0.08		2.7	0.5	0.1	
UCP-SD37	B1.11639L	Sediment sample from same location as UCP-SW37; red mud, heavy silting	2.2	0.5	0.1		7	1	0.1		2.8	0.5	0.1		0.2	0.1	0.09		2.8	0.5	0.1	
UCP-SD39	B1.11640D	Sediment sample from same location as UCP-SW39; red clay with some fine sand, soft	2.7	0.5	0.1		10	1	0.1		2.9	0.6	0.1		0.2	0.1	0.10		2.5	0.5	0.08	
RMA-WST02B	B1.11641E	Subsurface waste sample from Red Mud Disposal Area A; depth = 2-4'	3.2	0.5	0.1		12	1	0.1		3.3	0.6	0.1		0.3	0.2	0.16		2.9	0.6	0.09	
RMA-WST04B	B1.11642F	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	2.5	0.5	0.1		10	1	0.1		2.2	0.5	0.1		0.1	0.1	0.18	U	2.3	0.5	0.1	
RMA-WST05A	B1.11643G	Surface waste sample from Red Mud Disposal Area A	4.2	0.6	0.1		15	1	0.1		4.0	0.7	0.1		0.2	0.2	0.11		4.1	0.7	0.1	
RMA-WST05B	B1.11644H	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	2.9	0.6	0.1		13	1	0.1		3.0	0.6	0.2		0.1	0.1	0.10	U	3.4	0.6	0.1	
RMA-WST06B	B1.11645J	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	3.5	0.8	0.3		12	2	0.2		1.5	0.5	0.2		0.1	0.2	0.17	U	1.5	0.5	0.2	
RMA-WST07B	B1.11646K	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	6	1	0.2		16	2	0.2		6.5	1.1	0.2		0.2	0.2	0.18		5.9	0.1	0.2	
RMA-WST08A	B1.11647L	Surface waste sample from Red Mud Disposal Area A	3.0	0.6	0.1		12	1	0.2		2.7	0.5	0.1		0.1	0.1	0.15	U	2.8	0.5	0.08	
RMA-WST10A	B1.11648M	Surface waste sample from Red Mud Disposal Area A	2.4	0.5	0.1		11	1	0.1		1.9	0.4	0.1		0.2	0.2	0.18		2.2	0.5	0.1	
RMA-WST11B	B1.11649N	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	3.8	0.6	0.1		13	1	0.1		2.7	0.5	0.2		0.1	0.1	0.10		3.1	0.6	0.1	
RMA-WST11C	B1.11650F	Duplicate of RMA-WST11A	3.0	0.6	0.1		13	1	0.2		3.2	0.6	0.1		0.1	0.1	0.10		3.4	0.6	0.2	
RMA-WST19B	B1.11651G	Subsurface waste sample from Red Mud Disposal Area A; depth = 5'	2.2	0.4	0.1		8	1	0.1		2.9	0.5	0.1		0.2	0.1	0.08		2.2	0.4	0.09	
RMB-WST22A	B1.11652H	Surface waste sample from Red Mud Disposal Area B; sandy red mud	6.6	0.9	0.1		12	1	0.1		4.4	0.7	0.1		0.3	0.2	0.08		4.3	0.7	0.09	

Table 41: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMB-WST22B	B1.11653J	Subsurface waste sample from Red Mud Disposal Area B; sandy red mud; depth = 10'	3.9	0.7	0.2		7	1	0.1		3.8	0.7	0.2		0.2	0.1	0.12		3.5	0.7	0.1	
RMB-WST23A	B1.11654K	Surface waste sample from Red Mud Disposal Area B	3.0	0.5	0.1		10	1	0.1		3.0	0.5	0.1		0.2	0.1	0.09	J	2.8	0.5	0.1	
RMB-WST23B	B1.11655L	Subsurface waste sample from Red Mud Disposal Area B; granular material; depth = 7.5'	3.9	0.7	0.2	J	7	1	0.1	J	4.2	0.7	0.1		0.2	0.1	0.09	J	3.9	0.6	0.07	
RMB-WST23C	B1.11656M	Duplicate of RMB-WST23B	3.4	0.6	0.1		8	1	0.1		3.9	0.7	0.1		0.2	0.1	0.07	J	3.8	0.6	0.08	
RMB-WST28B	B1.11657N	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	7.2	0.9	0.1		11	1	0.1		6.3	1.0	0.1		0.5	0.2	0.08	J	6	1	0.09	
RMB-WST29B	B1.11658P	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5'	5.6	0.8	0.1		10	1	0.1		6.3	1.0	0.1		0.4	0.2	0.07	J	7	1	0.08	
RMB-WST34B	B1.11659Q	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5-4'	3.9	0.6	0.1		9	1	0.1		3.7	0.6	0.1		0.3	0.2	0.07	J	3.7	0.6	0.08	
RMB-WST37A	B1.11660H	Surface waste sample from Red Mud Disposal Area B	3.6	0.5	0.1		10	1	0.1		3.6	0.6	0.1		0.2	0.1	0.06	J	3.8	0.6	0.07	
RMB-WST37B	B1.11661J	Subsurface waste sample from Red Mud Disposal Area B; depth = 8'	4.8	0.7	0.1		15	2	0.1		4.5	0.7	0.1		0.2	0.1	0.07	J	3.7	0.6	0.06	
FBS-WST43A	B1.11720C	Surface waste red mud sample from drainage channel behind Former Bauxite Storage shed	0.9	0.2	0.1		4	1	0.1		1.1	0.3	0.1		0.1	0.1	0.09	J	0.9	0.2	0.05	
RMA-SD57	B1.11721D	*Sample from red mud depositional area south of Area A*	1.8	0.3	0.1		10	1	0.1		1.2	0.3	0.1		0.1	0.1	0.11	U	1.2	0.3	0.07	
RMA-SD58	B1.11722E	*Sample from red mud depositional area south of Area A*	1.5	0.3	0.1		6	1	0.1		1.2	0.3	0.1		0.1	0.1	0.08	U	1.3	0.3	0.09	
RMA-SD59	B1.11723F	*Sample from red mud depositional area south of Area A*	1.7	0.3	0.1		9	1	0.1		1.3	0.3	0.05		0.1	0.1	0.07	J	1.4	0.3	0.06	
RMA-SD60	B1.11724G	*Sample from red mud depositional area south of Area A*	1.8	0.4	0.1		8	1	0.1		1.5	0.3	0.1		0.2	0.1	0.06	J	1.5	0.3	0.06	
RMA-SD61	B1.11725H	*Sample from red mud depositional area south of Area A*	0.6	0.2	0.1		4	1	0.1		0.5	0.2	0.1		0.1	0.1	0.06	J	0.5	0.2	0.06	
RMA-SD62	B1.11726J	*Sample from red mud depositional area south of Area A*	1.4	0.3	0.1		8	1	0.1		1.3	0.3	0.1		0.1	0.1	0.07	J	1.2	0.3	0.08	
RMA-SD63	B1.11727K	*Duplicate of RMA-SD62*	1.4	0.3	0.1		9	1	0.1		1.5	0.3	0.1		0.1	0.1	0.06	U	1.3	0.3	0.07	
RMA-SD63	B1.11727K (DUP)	*Lab duplicate of RMA-SD63*	1.2	0.3	0.1		8	1	0.1		1.3	0.3	0.1		0.1	0.1	0.06	J	1.1	0.3	0.07	
RMA-WST06B(2)	B1.11728L	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	2.9	0.5	0.1		11	1	0.1		1.8	0.4	0.1		0.1	0.1	0.06	J	2.1	0.4	0.05	
RMA-WST08B	B1.11729M	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	3.1	0.5	0.1		12	1	0.1		2.7	0.5	0.1		0.2	0.1	0.11	J	2.3	0.5	0.06	
RMA-WST18B	B1.11730E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	3.4	0.6	0.1		15	2	1		3.5	0.6	0.1		0.2	0.1	0.11	J	3.0	0.5	0.08	

J - reported value is estimated
U - isotope was not detected above the noted MDC
(DUP) - Laboratory Duplicate

Table 42: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
ADP-SD49	B1.11619G	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	0.5	0.7	1.2	0.6	1.0	1.6	0.6	0.0	0.5
ADP-WST41A	B1.11405U	Surface waste sample from Ash Disposal area	1.5	0.6	2.1	1.1	0.6	1.6	1.2	0.1	1.2
ADP-WST41B	B1.11406V	Subsurface waste sample from Ash Disposal area; depth = 4'	0.6	0.2	0.8	0.3	0.3	0.6	0.4	0.0	0.3
ADP-WST41C	B1.11407W	Field duplicate of ADP-WST41B	0.4	0.4	0.8	0.5	0.4	0.9	0.5	0.0	0.3
ADP-WST41C	B1.11407W (DUP)	Lab duplicate of ADP-WST41C	0.7	0.3	1.1	NA	NA	NA	0.6	0.0	0.5
ADP-WST42A	B1.11408X	Surface waste sample from Ash Disposal area	1.9	0.7	2.5	1.3	0.6	1.9	1.3	0.0	1.2
ADP-WST42B	B1.11409Y	Subsurface waste sample from Ash Disposal area; depth = 4'	1.3	0.4	1.6	1.0	0.5	1.4	0.9	0.0	0.9
FBS-WST43A	B1.11720C	Surface waste red mud sample from drainage channel behind Former Bauxite Storage shed	0.9	3.9	4.8	0.7	4.4	5.1	0.8	0.1	0.6
FBS-WST44A	B1.11410Q	Surface waste red mud sample from pile in Former Bauxite Storage shed	0.6	4.9	5.4	0.8	5.7	6.6	0.6	0.0	0.4
FBS-WST44A	B1.11410Q (DUP)	Lab duplicate of FBS-WST44A	NA	NA	NA	0.8	5.7	6.5	NA	NA	NA
FBS-WST45A	B1.11411R	Surface waste red mud sample from pile in Former Bauxite Storage shed	2.3	10.0	12.4	1.8	10.1	11.9	2.3	0.0	2.2
FBS-WST46A	B1.11412T	Surface waste red mud sample from pile in Former Bauxite Storage shed	1.5	7.2	8.6	1.1	7.2	8.3	1.0	0.0	1.0
LCP-SD33	B1.11631C	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	0.3	0.1	0.4	-0.2	-0.1	-0.3	3.5	0.2	3.1
RMA-SD57	B1.11721D	*Sample from red mud depositional area south of Area A*	1.8	9.3	11.1	2.4	10.9	13.2	1.0	0.1	1.0
RMA-SD58	B1.11722E	*Sample from red mud depositional area south of Area A*	1.5	6.1	7.6	1.7	7.2	8.9	1.0	0.0	1.1
RMA-SD59	B1.11723F	*Sample from red mud depositional area south of Area A*	1.2	8.4	9.6	2.8	11.1	13.8	1.1	0.1	1.2
RMA-SD60	B1.11724G	*Sample from red mud depositional area south of Area A*	1.8	7.7	9.5	2.3	10.5	12.7	1.3	0.1	1.3
RMA-SD61	B1.11725H	*Sample from red mud depositional area south of Area A*	0.6	3.5	4.1	0.5	4.4	4.9	0.3	0.1	0.2
RMA-SD61	B1.11725H (DUP)	*Lab duplicate of RMA-SD61*	NA	NA	NA	0.5	4.5	5.0	NA	NA	NA
RMA-SD62	B1.11726J	*Sample from red mud depositional area south of Area A*	1.4	7.9	9.3	2.0	10.0	12.0	1.1	0.1	0.9

Table 42: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
RMA-SD63	B1.11727K	*Field duplicate of RMA-SD62*	0.9	9.1	10.0	1.9	8.9	10.7	1.3	0.0	1.0
RMA-SD63	B1.11727K (DUP)	*Lab duplicate of RMA-SD63*	1.2	7.8	9.0	NA	NA	NA	1.1	0.1	0.8
RMA-WST01A	B1.11274B	Surface waste sample from Red Mud Disposal Area A	0.5	8.4	8.9	1.3	9.5	10.9	1.0	0.0	0.8
RMA-WST01B	B1.11425Y	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	1.5	4.8	6.2	2.7	11.1	13.8	0.9	0.1	1.1
RMA-WST01C	B1.11426Z	Duplicate of RMA-WST01B	2.6	10.2	12.8	2.7	10.7	13.3	2.5	0.1	2.2
RMA-WST02A	B1.11275C	Surface waste sample from Red Mud Disposal Area A	3.4	13.2	16.7	2.9	13.2	16.1	2.7	0.1	3.0
RMA-WST02A	B1.11275C (DUP)	Lab duplicate of WST02A	3.5	12.7	16.3	NA	NA	NA	2.6	0.1	3.0
RMA-WST02B	B1.11641E	Subsurface waste sample from Red Mud Disposal Area A; depth = 2-4'	2.7	11.9	14.7	3.1	14.3	17.3	3.1	0.2	2.6
RMA-WST03A	B1.11276D	Surface waste sample from Red Mud Disposal Area A	3.3	13.7	17.1	3.1	14.0	17.1	3.7	0.2	3.7
RMA-WST03B	B1.11427A	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	3.4	12.3	15.7	3.1	14.5	17.6	2.0	0.1	2.4
RMA-WST04A	B1.11277E	Surface waste sample from Red Mud Disposal Area A	2.1	10.9	13.0	2.4	11.1	13.4	2.1	0.2	2.5
RMA-WST04B	B1.11642F	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	2.5	9.6	12.0	2.0	11.0	12.9	2.0	0.1	2.0
RMA-WST05A	B1.11643G	Surface waste sample from Red Mud Disposal Area A	4.2	14.3	18.5	3.6	15.6	19.1	3.7	0.2	3.9
RMA-WST05B	B1.11644H	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	2.9	12.4	15.4	3.4	16.0	19.4	2.8	0.1	3.2
RMA-WST06A	B1.11278F	Surface waste sample from Red Mud Disposal Area A	3.9	12.0	15.9	3.5	12.2	15.7	4.1	0.3	3.3
RMA-WST06B	B1.11645J	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	3.1	11.5	14.6	4.2	14.6	18.7	1.2	0.1	1.3
RMA-WST06B(2)	B1.11728L	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	2.9	10.5	13.4	3.7	12.8	16.4	1.5	0.1	1.9
RMA-WST07A	B1.11279G	Surface waste sample from Red Mud Disposal Area A	3.2	12.3	15.6	3.0	13.4	16.4	4.7	0.2	3.6
RMA-WST07B	B1.11646K	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	5.8	15.7	21.5	6.3	17.6	23.9	6.3	0.2	5.6
RMA-WST08A	B1.11647L	Surface waste sample from Red Mud Disposal Area A	3.0	11.7	14.8	2.4	11.8	14.2	2.5	0.1	2.6
RMA-WST08B	B1.11729M	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	3.1	11.5	14.7	3.4	15.4	18.8	2.5	0.2	2.0

Table 42: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
RMA-WST09A	B1.11280Z	Surface waste sample from Red Mud Disposal Area A	2.0	9.3	11.2	2.3	12.3	14.6	1.9	0.1	2.0
RMA-WST09A	B1.11280Z (DUP)	Lab duplicate of RMA-WST09A	NA	NA	NA	2.3	12.2	14.4	NA	NA	NA
RMA-WST09B	B1.11281A	Subsurface waste sample from Red Mud Disposal Area A; depth = 7'	3.0	13.2	16.3	3.8	15.6	19.4	3.2	0.1	3.2
RMA-WST10A	B1.11648M	Surface waste sample from Red Mud Disposal Area A	2.4	10.1	12.5	2.0	10.7	12.6	1.7	0.2	2.0
RMA-WST10B	B1.11428B	Subsurface waste sample from Red Mud Disposal Area A; depth = 5-6'	2.8	15.2	18.0	2.6	16.0	18.6	2.4	0.1	2.2
RMA-WST11A	B1.11282B	Surface waste sample from Red Mud Disposal Area A	3.6	13.1	16.8	3.5	14.3	17.8	3.3	0.2	2.8
RMA-WST11B	B1.11649N	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	3.4	12.7	16.1	3.1	15.2	18.3	2.4	0.1	2.9
RMA-WST11C	B1.11650F	Duplicate of RMA-WST11A	3.0	12.4	15.4	3.6	15.6	19.1	3.0	0.1	3.2
RMA-WST12A	B1.11283C	Surface waste sample from Red Mud Disposal Area A	3.3	15.7	19.0	3.2	18.8	22.0	2.5	0.1	2.4
RMA-WST12B	B1.11429C	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	4.0	21.4	25.4	3.9	23.3	27.1	3.3	0.2	2.8
RMA-WST13A	B1.11632D	Surface waste sample from Red Mud Disposal Area A	3.6	12.6	16.3	2.8	12.2	14.9	2.6	0.1	2.5
RMA-WST13B	B1.11633E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	4.5	12.1	16.6	4.3	13.9	18.1	3.5	0.2	3.4
RMA-WST14A	B1.11284D	Surface waste sample from Red Mud Disposal Area A	1.8	8.7	10.5	2.5	11.1	13.6	1.2	0.1	1.2
RMA-WST14A	B1.11284D (DUP)	Lab duplicate of RMA-WST14A	1.8	9.0	10.8	NA	NA	NA	1.4	0.1	1.1
RMA-WST14B	B1.11285E	Subsurface waste sample from Red Mud Disposal Area A; depth = 3.5'	2.3	10.1	12.4	1.9	10.7	12.6	1.4	0.0	1.7
RMA-WST15A	B1.11286F	Surface waste sample from Red Mud Disposal Area A	1.9	8.8	10.8	2.2	10.6	12.8	1.1	0.1	1.2
RMA-WST16A	B1.11287G	Surface waste sample from Red Mud Disposal Area A	2.3	9.3	11.6	2.8	12.4	15.2	1.4	0.0	1.8
RMA-WST16B	B1.11288H	Subsurface waste sample from Red Mud Disposal Area A; depth = 7.5'	1.9	10.4	12.3	2.8	12.4	15.2	1.6	0.1	2.0
RMA-WST17A	B1.11289J	Surface waste sample from Red Mud Disposal Area A	2.9	10.2	13.1	3.0	13.0	16.0	2.6	0.1	2.3
RMA-WST17B	B1.11290B	Subsurface waste sample from Red Mud Disposal Area A; depth = 3'	2.7	8.4	11.0	2.7	11.4	14.1	1.3	0.1	1.9

Table 42: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
RMA-WST18A	B1.11291C	Surface waste sample from Red Mud Disposal Area A	3.8	13.5	17.4	3.6	14.9	18.5	5.9	0.3	5.5
RMA-WST18B	B1.11730E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	2.9	14.5	17.4	3.4	16.4	19.8	3.2	0.2	2.7
RMA-WST19A	B1.11292D	Surface waste sample from Red Mud Disposal Area A	3.3	12.2	15.6	3.2	14.3	17.4	2.8	0.2	2.5
RMA-WST19B	B1.11651G	Subsurface waste sample from Red Mud Disposal Area A; depth = 5'	2.2	7.6	9.8	2.7	12.0	14.6	2.7	0.2	2.0
RMA-WST20A	B1.11293E	Surface waste sample from Red Mud Disposal Area A	3.6	12.0	15.7	3.0	14.5	17.5	4.0	0.1	3.5
RMA-WST20B	B1.11634F	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	2.0	11.4	13.5	2.5	12.6	15.1	1.9	0.0	1.4
RMA-WST20B	B1.11634F (DUP)	Lab duplicate of RMA-WST20B	2.5	10.3	12.8	NA	NA	NA	2.0	0.1	1.9
RMA-WSTR01A	B1.11635G	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	3.0	14.0	17.0	4.4	16.5	20.8	1.9	0.2	1.4
RMA-WSTR02A	B1.11636H	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	3.0	13.2	16.2	3.3	14.1	17.3	1.9	0.0	2.2
RMB-WST22A	B1.11652H	Surface waste sample from Red Mud Disposal Area B; sandy red mud	6.6	11.3	17.9	7.1	13.5	20.6	4.2	0.3	4.1
RMB-WST22B	B1.11653J	Subsurface waste sample from Red Mud Disposal Area B; sandy red mud; depth = 10'	3.4	6.7	10.1	4.2	8.4	12.6	3.6	0.1	3.3
RMB-WST23A	B1.11654K	Surface waste sample from Red Mud Disposal Area B	3.0	10.0	13.0	4.5	13.0	17.5	2.8	0.2	2.6
RMB-WST23B	B1.11655L	Subsurface waste sample from Red Mud Disposal Area B; granular material; depth = 7.5'	3.9	6.7	10.7	4.5	9.3	13.8	4.0	0.2	3.7
RMB-WST23C	B1.11656M	Duplicate of RMB-WST23B	3.4	7.6	11.0	4.1	8.4	12.5	3.6	0.2	3.5
RMB-WST24A	B1.11413U	Surface waste sample from Red Mud Disposal Area B	3.2	7.9	11.1	3.2	8.5	11.7	1.9	0.0	1.6
RMB-WST28A	B1.11414V	Surface waste sample from Red Mud Disposal Area B	4.7	20.4	25.1	5.0	23.6	28.5	2.1	0.2	2.5

Table 42: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
RMB-WST28B	B1.11657N	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	6.7	11.0	17.8	6.8	14.0	20.8	6.0	0.4	6.2
RMB-WST29A	B1.11415W	Surface waste sample from Red Mud Disposal Area B	3.1	6.9	10.0	2.6	7.4	10.0	2.0	0.0	1.4
RMB-WST29B	B1.11658P	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5'	5.6	10.0	15.6	5.6	12.3	17.8	6.1	0.4	6.3
RMB-WST30A	B1.11416X	Surface waste sample from Red Mud Disposal Area B	4.5	16.9	21.4	4.5	21.0	25.5	3.0	0.1	3.1
RMB-WST30B	B1.11417Y	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	9.3	13.5	22.8	8.8	16.1	24.9	4.6	0.3	4.6
RMB-WST32A	B1.11418Z	Surface waste sample from Red Mud Disposal Area B	1.7	5.4	7.1	2.0	6.4	8.4	3.0	0.2	2.8
RMB-WST34A	B1.11419A	Surface waste sample from Red Mud Disposal Area B	3.0	8.3	11.3	3.7	9.2	12.9	1.5	0.1	0.9
RMB-WST34B	B1.11659Q	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5-4'	3.9	8.6	12.6	4.7	13.0	17.6	3.5	0.3	3.5
RMB-WST36A	B1.11420T	Surface waste sample from Red Mud Disposal Area B	5.2	18.4	23.6	4.5	21.4	25.8	2.7	0.2	2.5
RMB-WST37A	B1.11660H	Surface waste sample from Red Mud Disposal Area B	3.6	9.6	13.2	4.7	11.9	16.6	3.4	0.2	3.6
RMB-WST37A	B1.11660H (DUP)	Lab duplicate of RMB-WST37A	NA	NA	NA	4.9	11.9	16.8	NA	NA	NA
RMB-WST37B	B1.11661J	Subsurface waste sample from Red Mud Disposal Area B; depth = 8'	4.4	14.5	18.9	4.3	15.8	20.0	4.2	0.2	3.5
RMB-WST38A	B1.11421U	Surface waste sample from Red Mud Disposal Area B	4.6	20.2	24.8	4.6	24.2	28.8	3.1	0.1	3.0
RMB-WST39A	B1.11422V	Surface waste sample from Red Mud Disposal Area B	3.9	10.8	14.8	4.2	11.8	16.0	2.6	0.1	2.9
RMB-WST39B	B1.11423W	Subsurface waste sample from Red Mud Disposal Area B; depth = 3'	5.5	15.3	20.9	4.7	19.1	23.8	5.2	0.2	4.6
RMB-WST40A	B1.11424X	Surface waste sample from Red Mud Disposal Area B; red sand area	1.1	9.8	10.9	0.6	9.0	9.7	0.8	0.0	0.6
RMS-SD45	B1.11637J	Sediment sample from same location as RMS-SW45; red clay with some silt and fine sand	1.6	9.7	11.3	2.9	12.1	15.0	1.8	0.1	1.6
UCP-SD35	B1.11638K	Sediment sample from same location as UCP-SW35; red mud in mud flat sediments	0.9	2.4	3.4	0.2	2.0	2.2	3.1	0.1	2.5

Table 42: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
UCP-SD37	B1.11639L	Sediment sample from same location as UCP-SW37; red mud, heavy silting	2.2	6.6	8.7	1.4	7.0	8.5	2.5	0.1	2.6
UCP-SD39	B1.11640D	Sediment sample from same location as UCP-SW39; red clay with some fine sand, soft	2.7	9.5	12.2	2.8	12.5	15.2	2.6	0.2	2.3
UCP-SD39	B1.11640D (DUP)	Lab duplicate of UCP-SD39	NA	NA	NA	2.8	12.8	15.6	NA	NA	NA

(a) Isoptoic analyses results as reported in Table 5-9B.
(b) Gamma spectroscopy analyses Results as reported in Table 5-9A.
(DUP) - Laboratory Duplicate

Table 43: Radiological Results of Surface Water and Ground-water Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Ra-226				Ra-228				Sum of Radium[a]	U-234				U-235				U-238				Tot-U pCi/L[b]	Tot-U µg/L[c]	Th-230				Th-232			
			Result (pCi/L)	2 sigma	MDC	Val. Flag	Result (pCi/L)	2 sigma	MDC	Val. Flag		Result (pCi/L)	2 sigma	MDC	Val. Flag	Result (pCi/L)	2 sigma	MDC	Val. Flag	Result (pCi/L)	2 sigma	MDC	Val. Flag			Result (pCi/L)	2 sigma	MDC	Val. Flag	Result (pCi/L)	2 sigma	MDC	Val. Flag
RMA-SW57	B1.11662K	Storm water runoff from culvert at Red Mud Disposal Area A	6	4	2		21	5	6	J	27	5.1	1.0	0.2		0.1	0.2	0.2	U	3.5	0.8	0.3		8.73	5.85	0.54	0.29	0.20		3.40	0.71	0.20	
RMA-SW57	B1.11662K (DUP)	Lab duplicate of RMA-SW57	6	3	2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RMS-SW45	B1.11663L	Surface water sample from Settling Pond	1.4	0.6	0.4		16	5	6	J	18	9	1	0.2		0.5	0.3	0.3		5	1	0.2		15.31	10.25	0.54	0.30	0.21		1.66	0.51	0.16	
SW-RMA-WST12	B1.11665N	Water sample from ponded water at waste sample location RMA-WST12	0.5	0.4	0.3		5	2	3	J	6	5	1	0.3		0.2	0.2	0.2	U	2.5	0.6	0.2		8.08	5.41	0.10	0.14	0.15	U	0.31	0.22	0.15	
UCP-SW35	B1.11666P	Surface water sample from Upper Cooling Pond	0.2	0.1	0.1		1.0	0.5	0.7	J	1.2	1.2	0.4	0.2		0.1	0.1	0.2	U	1.0	0.4	0.1		2.21	1.48	0.13	0.14	0.13	U	0.11	0.14	0.18	U
UCP-SW35	B1.11666P (DUP)	Lab duplicate of UCP-SW35	0.2	0.1	0.1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
UCP-SW39	B1.11667Q	Surface water sample from Upper Cooling Pond	0.7	0.4	0.3		10	4	5	J	11	1.9	0.6	0.3		0.3	0.3	0.2		1.4	0.5	0.2		3.53	2.37	0.4	0.3	0.3		1.8	0.6	0.2	
SCA-GW01	B1.11664M	Unfiltered ground water sample from monitoring well VW37	0.1	0.1	0.1		0	1	1	U	0	1.1	0.4	0.2	J	0.1	0.2	0.3		0.6	0.3	0.2		1.80	1.21	-0.02	0.15	0.39	U	0.22	0.31	0.44	U
SCA-GW05	B1.11668R	Unfiltered ground water sample from monitoring well GM-13D	0.3	0.3	0.3	U	0.6	0.4	0.7	U	0.9	0.5	0.3	0.2	J	0.1	0.1	0.2	U	0.4	0.2	0.2		1.00	0.67	0.2	0.2	0.1		-0.02	0.07	0.20	U
SCA-GW06	B1.11669T	Unfiltered ground water sample from monitoring well GM-22	0.3	0.4	0.6	U	0.5	0.8	1.4	U	0.8	0.9	0.4	0.1	J	0.1	0.1	0.2	U	0.6	0.3	0.2		1.55	1.04	0.1	0.1	0.1	U	0.03	0.09	0.13	U
SCA-GW08	B1.11670K	Unfiltered ground water sample from monitoring well GM-14	0.3	0.1	0.1		0.8	0.5	0.8	U	1.1	0.5	0.3	0.2	J	0.1	0.2	0.2	U	1.1	0.4	0.2		1.71	1.15	-0.01	0.08	0.21	U	-0.01	0.08	0.21	U
SCA-GW10	B1.11671L	Unfiltered ground water sample from monitoring well GM-18	0.3	0.4	0.6	U	1	2	3	U	0.9	0.9	0.4	0.1	J	0.3	0.2	0.2		1.3	0.4	0.2		2.42	1.62	0.02	0.09	0.17	U	0.02	0.09	0.17	U
WST-RIN01	B1.11672M	Unfiltered ground water sample from monitoring well VW37	0.0	0.1	0.1	U	0	1	1	U	0.2	0.2	0.2	0.1	J	0.3	0.2	0.2		0.1	0.1	0.2	U	0.57	0.38	0.0	0.1	0.2	U	0.01	0.09	0.20	U
WST-RIN01	B1.11672M (DUP)	Lab duplicate of WST-RIN01	NA	NA	NA	NA	-0.1	0.5	0.9	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SCA-GW02	B1.11673N	Unfiltered ground water sample from monitoring well G-9	0.1	0.1	0.1	U	0.8	0.5	0.8	U	0.9	0.1	0.1	0.1	U	0.1	0.2	0.3	U	0.3	0.2	0.2		0.56	0.38	0.1	0.1	0.18	U	0.05	0.11	0.18	U
SCA-GW07	B1.11674P	Unfiltered ground water sample from monitoring well VW25	0.2	0.1	0.1		0.7	0.5	0.8	U	1.0	1.6	0.4	0.3		0.3	0.2	0.3	U	0.1	0.4	0.2		1.95	1.31	0.1	0.1	0.13	U	0.00	0.06	0.13	U
SCA-GW07	B1.11674P(DUP)	Lab duplicate of SCA-GW07	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4	0.4	0.2		0.0	0.1	0.2	U	1.4	0.4	0.2		2.79	1.87	0.03	0.08	0.12	U	-0.03	0.07	0.20	U

NA - Not Applicable U - Isotope was not detected above the noted MDC J - reported value is estimated

(DUP) - Laboratory Duplicate

(a) Sum of radium 226 and radium 228.

(b) Sum of uranium 234, uranium 235 and uranium 238.

(c) Activity to mass conversion factors range from 0.67 to 1.5 pCi/µg (USEPA 2000. National Primary Drinking Water Regulations; Final Rule 65 FR 236; December 7, 2000) and the major challenge is to determine which factor is most appropriate to use to calculate an exposure point concentration for compliance monitoring or to use in a human health risk assessment. Ideally the activity to mass ratio should be calculated for each water supply but if this is not possible, there is a health protective approach to evaluate compliance with the regulatory level. A two-tiered approach can be used to initially screen for compliance with the regulatory level. The first tier involves using a conservative activity to mass ratio of 0.67 pCi/µg to convert activity units in pCi to mass units in µg. The second tier would be to determine the actual activity to mass ratio for a particular water supply. For our screening purpose the first tier was used. If concentrations are less than 30 µg/L, then the uranium MCL has been met and no need to go to the second tier.

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Soil	BG-S01	BG-S01	17.716810	-64.772851
Soil	BG-S02	BG-S02 BG-SS02	17.715292	-64.770667
Soil	BG-S03	BG-S03	17.714129	-64.770042
Soil	BG-S04	BG-S04	17.713109	-64.772744
Soil	BG-S05	BG-S05 BG-S06	17.711449	-64.768609
Soil	BG-S07	BG-S07	17.714457	-64.775136
Soil	BG-S08	BG-S08	17.715894	-64.774644
Soil	BG-S09	BG-S09	17.717498	-64.773321
Soil	BG-S10	BG-S10	17.719887	-64.771134
Soil	BG-S11	BG-S11	17.716560	-64.769967
Soil	BG-S12	BG-S12	17.714825	-64.772117
Soil	BG-S13	BG-S13	17.713930	-64.773640
Soil	BG-S14	BG-S14	17.714098	-64.770186
Soil	BG-S15	BG-S15	17.711925	-64.769609
Soil	BG-S16	BG-S16A	17.701396	-64.785025
Waste - RMA	RMA-WST01	RMA-WST01A RMA-WST01B RMA-WST01C	17.710319	-64.781653
Waste - RMA	RMA-WST02	RMA-WST02A RMA-WST02B	17.710756	-64.780037
Waste - RMA	RMA-WST03	RMA-WST03A RMA-WST03B	17.711578	-64.779219
Waste - RMA	RMA-WST04	RMA-WST04A RMA-WST04B	17.711981	-64.778093
Waste - RMA	RMA-WST05	RMA-WST05A RMA-WST05B	17.712192	-64.776971
Waste - RMA	RMA-WST06	RMA-WST06A RMA-WST06B	17.711866	-64.776407
Waste - RMA	RMA-WST07	RMA-WST07A RMA-WST07B	17.708664	-64.782059
Waste - RMA	RMA-WST08	RMA-WST08A RMA-WST08B	17.709004	-64.781082
Waste - RMA	RMA-WST09	RMA-WST09A RMA-WST09B	17.708768	-64.779653
Waste - RMA	RMA-WST10	RMA-WST10A RMA-WST10B	17.709291	-64.779345

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Waste - RMA	RMA-WST11	RMA-WST11A RMA-WST11B RMA-WST11C	17.710572	-64.778493
Waste - RMA	RMA-WST12	RMA-WST12A RMA-WST12B SW-RMA-WST12	17.710957	-64.778013
Waste - RMA	RMA-WST13	RMA-WST13A RMA-WST13B	17.711121	-64.776675
Waste - RMA	RMA-WST14	RMA-WST14A RMA-WST14B	17.707132	-64.780853
Waste - RMA	RMA-WST15	RMA-WST15A	17.707278	-64.780044
Waste - RMA	RMA-WST16	RMA-WST16A RMA-WST16B	17.707777	-64.779065
Waste - RMA	RMA-WST17	RMA-WST17A RMA-WST17B	17.708621	-64.777970
Waste - RMA	RMA-WST18	RMA-WST18A RMA-WST18B	17.709368	-64.778327
Waste - RMA	RMA-WST19	RMA-WST19A RMA-WST19B	17.709566	-64.777401
Waste - RMA	RMA-WST20	RMA-WST20A RMA-WST20B	17.710125	-64.776867
Waste - RMA	RMA-WSTR01	RMA-WSTR01A	17.709847	-64.777992
Waste - RMA	RMA-WSTR02	RMA-WSTR02A	17.711343	-64.777487
Runoff from RMA	RMA-SW57	RMA-SW57	17.707899	-64.778905
Waste - RMA Depositional Area	RMA-SD57	RMA-SD57	17.708112	-64.778292
Waste - RMA Depositional Area	RMA-SD58	RMA-SD58	17.706590	-64.780242
Waste - RMA Depositional Area	RMA-SD59	RMA-SD59	17.706091	-64.781179
Waste - RMA Depositional Area	RMA-SD60	RMA-SD60	17.705498	-64.780645
Waste - RMA Depositional Area	RMA-SD61	RMA-SD61	17.704827	-64.780361
Waste - RMA Depositional Area	RMA-SD62	RMA-SD62 RMA-SD63	17.705043	-64.779588

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Waste - RMB	RMB-WST22	RMB-WST22A RMB-WST22B	17.705606	-64.776162
Waste - RMB	RMB-WST23	RMB-WST23A RMB-WST23B RMB-WST23C	17.704882	-64.776239
Waste - RMB	RMB-WST24	RMB-WST24A	17.705667	-64.776629
Waste - RMB	RMB-WST28	RMB-WST28A RMB-WST28B	17.702307	-64.777907
Waste - RMB	RMB-WST29	RMB-WST29A RMB-WST29B	17.702771	-64.776356
Waste - RMB	RMB-WST30	RMB-WST30A RMB-WST30B	17.702497	-64.777150
Waste - RMB	RMB-WST32	RMB-WST32A	17.700086	-64.777896
Waste - RMB	RMB-WST34	RMB-WST34A RMB-WST34B	17.699043	-64.776835
Waste - RMB	RMB-WST36	RMB-WST36A	17.697876	-64.777433
Waste - RMB	RMB-WST37	RMB-WST37A RMB-WST37B	17.698928	-64.773959
Waste - RMB	RMB-WST38	RMB-WST38A	17.699553	-64.774361
Waste - RMB	RMB-WST39	RMB-WST39A RMB-WST39B	17.699200	-64.773148
Waste - RMB	RMB-WST40	RMB-WST40A	17.702728	-64.776792
Waste - ADP	ADP-WST41	ADP-WST41A ADP-WST41B ADP-WST41C	17.701674	-64.773263
Waste - ADP	ADP-WST42	ADP-WST42A ADP-WST42B	17.701459	-64.773716
Waste - FBS	FBS-WST43	FBS-WST43A	17.706715	-64.773313
Waste - FBS	FBS-WST44	FBS-WST44A	17.706961	-64.773244
Waste - FBS	FBS-WST45	FBS-WST45A	17.706807	-64.773688
Waste - FBS	FBS-WST46	FBS-WST46A	17.706722	-64.774046

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Surface Water/Sediment	ACC-SW01	ACC-SW01 ACC-SD01	17.691483	-64.764389
Surface Water/Sediment	ACC-SW04	ACC-SW04 ACC-SD04	17.699901	-64.768288
Surface Water/Sediment	ACC-SW05	ACC-SW05 ACC-SD05	17.702439	-64.772531
Surface Water/Sediment	ACC-SW06	ACC-SW06 ACC-SD06	17.706078	-64.771521
Surface Water/Sediment	ACC-SW07	ACC-SW07 ACC-SD07	17.707684	-64.771817
Surface Water/Sediment	MAN-SW08	MAN-SW08 MAN-SD08	17.689433	-64.765445
Surface Water/Sediment	MAN-SW09	MAN-SW09 MAN-SD09	17.690701	-64.768599
Surface Water/Sediment	MAN-SW10	MAN-SW10 MAN-SD10	17.692218	-64.769114
Surface Water/Sediment	MAN-SW11	MAN-SW11 MAN-SD11	17.693741	-64.770766
Surface Water/Sediment	MAN-SW12	MAN-SW12 MAN-SD12	17.692439	-64.772315
Surface Water/Sediment	MAN-SW13	MAN-SW13 MAN-SD13	17.694912	-64.772248
Surface Water/Sediment	MAN-SW14	MAN-SW14 MAN-SD14	17.694767	-64.774135
Surface Water/Sediment	MAN-SW15	MAN-SW15 MAN-SD15	17.694792	-64.775153
Surface Water/Sediment	MAN-SW16	MAN-SW16 MAN-SD16	17.695132	-64.777073
Surface Water/Sediment	MAN-SW17	MAN-SW17 MAN-SD17	17.695605	-64.776831
Surface Water/Sediment	MAN-SW19	MAN-SW19 MAN-SD19	17.695624	-64.779367
Surface Water/Sediment	MAN-SW20	MAN-SW20 MAN-SD20	17.696369	-64.778511
Surface Water/Sediment	MAN-SW21	MAN-SW21 MAN-SD21	17.697390	-64.779023

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Surface Water/Sediment	WES-SW22	WES-SW22 WES-SW23 WES-SD22 WES-SD23	17.697942	-64.779038
Surface Water/Sediment	WES-SW24	WES-SW24 WES-SD24	17.699607	-64.779585
Surface Water/Sediment	WES-SW25	WES-SD25	17.703194	-64.780833
Surface Water/Sediment	LCP-SW26	LCP-SW26 LCP-SD26	17.693239	-64.765607
Surface Water/Sediment	LCP-SW27	LCP-SW27 LCP-SD27	17.692260	-64.768299
Surface Water/Sediment	LCP-SW28	LCP-SW28 LCP-SD28	17.696640	-64.767697
Surface Water/Sediment	LCP-SW29	LCP-SW29 LCP-SD29	17.698824	-64.772727
Surface Water/Sediment	LCP-SW30	LCP-SW30 LCP-SD30	17.698599	-64.773752
Surface Water/Sediment	LCP-SW31	LCP-SW31 LCP-SD31	17.695964	-64.776642
Surface Water/Sediment	LCP-SW32	LCP-SW32 LCP-SD32	17.696352	-64.778287
Surface Water/Sediment	LCP-SW33	LCP-SW33 LCP-SD33	17.696995	-64.778457
Surface Water/Sediment	UCP-SW34	UCP-SW34 UCP-SD34	17.698035	-64.778200
Surface Water/Sediment	UCP-SW35	UCP-SW35 UCP-SD35	17.699230	-64.779327
Surface Water/Sediment	UCP-SW36	UCP-SW36 UCP-SD36	17.700518	-64.778399
Surface Water/Sediment	UCP-SW37	UCP-SW37 UCP-SD37	17.700777	-64.779647
Surface Water/Sediment	UCP-SW38	UCP-SW38 UCP-SD38	17.703152	-64.779076
Surface Water/Sediment	UCP-SW39	UCP-SW39 UCP-SD39	17.703989	-64.778951
Surface Water/Sediment	UCP-SW40	UCP-SW40 UCP-SD40	17.705522	-64.778213

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Surface Water/Sediment	UCP-SW41	UCP-SW41 UCP-SD41	17.706986	-64.777338
Surface Water/Sediment	RMS-SW42	RMS-SW42 RMS-SW43 RMS-SD42 RMS-SD43	17.708762	-64.776865
Surface Water/Sediment	RMS-SW45	RMS-SW45 RMS-SD45	17.707600	-64.777064
Surface Water/Sediment	RMS-SW46	RMS-SW46 RMS-SD46	17.707667	-64.776532
Surface Water/Sediment	RMS-SW47	RMS-SD47	17.708589	-64.777429
Surface Water/Sediment	ADP-SW48	ADP-SW48 ADP-SD48	17.700169	-64.775428
Surface Water/Sediment	ADP-SW49	ADP-SW49 ADP-SD49	17.700656	-64.774443
Surface Water/Sediment	ADP-SW50	ADP-SW50 ADP-SD50	17.701232	-64.773740
Surface Water/Sediment	ADP-SW51	ADP-SW51 ADP-SD51	17.702582	-64.773616
Surface Water/Sediment	ACC-SW52	ACC-SW52 ACC-SD52	17.704859	-64.767153
Surface Water/Sediment	BG-SW53	BG-SW53 BG-SD53	17.696330	-64.783901
Surface Water/Sediment	BG-SW54	BG-SW54 BG-SD54	17.696236	-64.785111
Surface Water/Sediment	BG-SW55	BG-SW55 BG-SD55	17.697344	-64.783782
Surface Water/Sediment	BG-SW56	BG-SW56 BG-SD56	17.701283	-64.785317

Table 1
Sample Locations
St. Croix Alumina (Renaissance Park) Site - September 2011

Location Type	Location ID	Sample ID	Latitude	Longitude
Ground Water	VW37	SCA-GW01 SCA-GW01F	17.708130	-64.782588
Ground Water	G-9	SCA-GW02 SCA-GW02F	17.715494	-64.775525
Ground Water	VW16	SCA-GW03 SCA-GW03F	17.709322	-64.770007
Ground Water	G-11	SCA-GW04 SCA-GW04F	17.709322	-64.771471
Ground Water	GM-13D	SCA-GW05 SCA-GW05F	17.708375	-64.777855
Ground Water	GM-22	SCA-GW06 SCA-GW06F	17.705325	-64.776730
Ground Water	VW25	SCA-GW07 SCA-GW07F	17.708443	-64.776223
Ground Water	GM-14	SCA-GW08 SCA-GW08F	17.706175	-64.771818
Ground Water	GM-19	SCA-GW09 SCA-GW09F	17.697751	-64.778811
Ground Water	GM-18	SCA-GW10 SCA-GW11 SCA-GW10F SCA-GW11F	17.699516	-64.772186

Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
Matrix: Soil										
BG-S01	9/12/2011	1000	Background surface soil sample from northeast portion of property	x	x	x				
BG-S02	9/12/2011	1035	Background surface soil sample from northeast portion of property		x					
BG-S03	9/12/2011	1300	Background surface soil sample from northeast portion of property		x					
BG-S04	9/12/2011	1347	Background surface soil sample from northeast portion of property		x					
BG-S05	9/12/2011	1330	Background surface soil sample from northeast portion of property		x	x				
BG-S06	9/12/2011	1335	Duplicate of BG-S05		x	x				
~~BG-SS01~~	NO SAMPLE - REFUSAL AT 4"									
BG-SS02	9/12/2011	1050	Background surface soil sample from northeast portion of property		x					
~~BG-SS03~~	NO SAMPLE - REFUSAL AT 6"									
~~BG-SS04~~	NO SAMPLE - REFUSAL AT 6"									
~~BG-SS05~~	NO SAMPLE - REFUSAL AT 6"									
BG-S07	*9/20/2011*	*1650*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S08	*9/20/2011*	*1700*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S09	*9/20/2011*	*1710*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S10	*9/20/2011*	*1715*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S11	*9/20/2011*	*1720*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S12	*9/20/2011*	*1725*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S13	*9/20/2011*	*1730*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S14	*9/20/2011*	*1740*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S15	*9/20/2011*	*1745*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S16A	*9/21/2011*	*810*	*Background soil sample near River Gut, west of site; surface sample for radiological testing; subsurface sample (depth = 3.5') for TAL and TCL parameters*	*x*	*x*	*x*				
Matrix: Waste										
RMA-WST01A	9/16/2011	1040	Surface waste sample from Red Mud Disposal Area A	x	x	x				
RMA-WST01B	9/16/2011	1040	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	x	x	x				
RMA-WST01C	9/16/2011	1045	Duplicate of RMA-WST01B	x	x	x				
RMA-WST02A	9/15/2011	910	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST02B	9/15/2011	1135	Subsurface waste sample from Red Mud Disposal Area A; depth = 2-4'	x	x					
RMA-WST03A	9/15/2011	1030	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST03B	9/15/2011	1430	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	x	x					
RMA-WST04A	9/15/2011	1055	Surface waste sample from Red Mud Disposal Area A	x	x					

Note:
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Italics indicates samples added during the field sampling event.

Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
RMA-WST04B	9/15/2011	1451	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	x	x					
RMA-WST05A	9/15/2011	1530	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST05B	9/15/2011	1522	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	x	x					
RMA-WST06A	9/15/2011	1545	Surface waste sample from Red Mud Disposal Area A	x	x	x				
RMA-WST06B	9/15/2011	1545	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	x	x	x				
RMA-WST07A	9/16/2011	950	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST07B	9/16/2011	950	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	x	x					
RMA-WST08A	9/16/2011	925	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST08B	9/16/2011	935	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	x	x					
RMA-WST09A	9/16/2011	915	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST09B	9/16/2011	915	Subsurface waste sample from Red Mud Disposal Area A; depth = 7'	x	x					
RMA-WST10A	9/16/2011	1100	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST10B	9/16/2011	1105	Subsurface waste sample from Red Mud Disposal Area A; depth = 5-6'	x	x					
RMA-WST11A	9/16/2011	1120	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST11C	9/16/2011	1125	Duplicate of RMA-WST11A	x	x					
RMA-WST11B	9/16/2011	1120	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	x	x					
RMA-WST12A	9/15/2011	1120	Surface waste sample from Red Mud Disposal Area A	x	x	x				
RMA-WST12B	9/15/2011	1500	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	x	x	x				
RMA-WST13A	9/15/2011	1615	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST13B	9/15/2011	1615	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	x	x					
RMA-WST14A	9/16/2011	1450	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST14B	9/16/2011	1450	Subsurface waste sample from Red Mud Disposal Area A; depth = 3.5'	x	x					
RMA-WST15A	9/16/2011	1435	Surface waste sample from Red Mud Disposal Area A	x	x					
~~RMA-WST15B~~	NO SAMPLE - HAND AUGER REFUSAL									
RMA-WST16A	9/16/2011	1415	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST16B	9/16/2011	1415	Subsurface waste sample from Red Mud Disposal Area A; depth = 7.5'	x	x					
RMA-WST17A	9/16/2011	1400	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST17B	9/16/2011	1400	Subsurface waste sample from Red Mud Disposal Area A; depth = 3'	x	x					
RMA-WST18A	9/15/2011	1700	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST18B	9/15/2011	1700	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	x	x					
RMA-WST19A	9/16/2011	900	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST19B	9/16/2011	900	Subsurface waste sample from Red Mud Disposal Area A; depth = 5'	x	x					

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Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
RMA-WST20A	9/15/2011	1635	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST20B	9/15/2011	1640	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	x	x					
~~RMB-WST21A~~	NO SAMPLE - FIELD DECISION DUE TO PRESENCE OF CALICHE									
~~RMB-WST21B~~	NO SAMPLE - FIELD DECISION DUE TO PRESENCE OF CALICHE									
~~RMB-WST21C~~	NO SAMPLE - FIELD DECISION DUE TO PRESENCE OF CALICHE									
RMB-WST22A	9/19/2011	1520	Surface waste sample from Red Mud Disposal Area B; sandy red mud	x	x					
RMB-WST22B	9/19/2011	1522	Subsurface waste sample from Red Mud Disposal Area B; sandy red mud; depth = 10'	x	x					
RMB-WST23A	9/19/2011	1555	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST23B	9/19/2011	1700	Subsurface waste sample from Red Mud Disposal Area B; granular material; depth = 7.5'	x	x					
RMB-WST23C	9/19/2011	1710	Duplicate of RMB-WST23B	x	x					
RMB-WST24A	9/19/2011	1740	Surface waste sample from Red Mud Disposal Area B	x	x					
~~RMB-WST24B~~	NO SAMPLE - WATER AT 2"									
~~RMB-WST25A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST25B~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST26A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST26B~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST27A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST27B~~	NOT COLLECTED - FIELD DECISION									
RMB-WST28A	9/19/2011	1230	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST28B	9/19/2011	1230	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	x	x					
RMB-WST29A	9/19/2011	1135	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST29B	9/19/2011	1135	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5'	x	x					
RMB-WST30A	9/19/2011	1210	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST30B	9/19/2011	1210	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	x	x					
~~RMB-WST31A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST31B~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST31C~~	NOT COLLECTED - FIELD DECISION									
RMB-WST32A	9/19/2011	1245	Surface waste sample from Red Mud Disposal Area B	x	x					
~~RMB-WST32B~~	NO SAMPLE - REFUSAL AT 8-12" - CALICHE									
~~RMB-WST33A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST33B~~	NOT COLLECTED - FIELD DECISION									
RMB-WST34A	9/19/2011	935	Surface waste sample from Red Mud Disposal Area B	x	x					

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Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
RMB-WST34B	9/19/2011	935	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5-4'	x	x					
~~RMB-WST35A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST35B~~	NOT COLLECTED - FIELD DECISION									
RMB-WST36A	9/19/2011	920	Surface waste sample from Red Mud Disposal Area B	x	x	x				
~~RMB-WST36B~~	NO SAMPLE - REFUSAL AT 24" - CALICHE									
RMB-WST37A	9/19/2011	810	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST37B	9/19/2011	810	Subsurface waste sample from Red Mud Disposal Area B; depth = 8'	x	x					
RMB-WST38A	9/19/2011	835	Surface waste sample from Red Mud Disposal Area B	x	x					
~~RMB-WST38B~~	NO SAMPLE - WATER AT 4-6"									
RMB-WST39A	9/19/2011	800	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST39B	9/19/2011	800	Subsurface waste sample from Red Mud Disposal Area B; depth = 3'	x	x					
RMB-WST40A	9/19/2011	1200	Surface waste sample from Red Mud Disposal Area B; red sand area	x	x					
~~RMB-WST40B~~	NO SAMPLE - REFUSAL AT 24" - CALICHE									
ADP-WST41A	9/19/2011	1015	Surface waste sample from Ash Disposal area	x	x					
ADP-WST41B	9/19/2011	1015	Subsurface waste sample from Ash Disposal area; depth = 4'	x	x	x				
ADP-WST41C	9/19/2011	1020	Duplicate of ADP-WST41B	x	x	x				
ADP-WST42A	9/19/2011	1035	Surface waste sample from Ash Disposal area	x	x	x				
ADP-WST42B	9/19/2011	1035	Subsurface waste sample from Ash Disposal area; depth = 4'	x		x				
FBS-WST43A	9/21/2011	1000	Surface waste red mud sample from drainage channel behind Former Bauxite Storage shed	x	x					
~~FBS-WST43B~~	NO SAMPLE - REFUSAL AT 6-8" - CALICHE									
FBS-WST44A	9/20/2011	925	Surface waste red mud sample from pile in Former Bauxite Storage shed	x	x					
~~FBS-WST44B~~	NO SAMPLE - ALUMINA BENEATH RED MUD AT 6-12"									
FBS-WST45A	9/20/2011	935	Surface waste red mud sample from pile in Former Bauxite Storage shed	x	x					
~~FBS-WST45B~~	NO SAMPLE - ALUMINA BENEATH RED MUD AT 14"									
FBS-WST46A	9/20/2011	950	Surface waste red mud sample from pile in Former Bauxite Storage shed	x	x					
~~FBS-WST46B~~	NO SAMPLE - ALUMINA BENEATH RED MUD AT 8-12"									
RMA-WSTR01A	*9/21/2011*	*900*	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	*x*						
RMA-WSTR02A	*9/21/2011*	*915*	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	*x*						
Matrix: Surface Water										
ACC-SW01	9/13/2011	952	Surface water sample from AluCroix Channel		x	x		x		
~~ACC-SW02~~	NOT COLLECTED - INACCESSIBLE									
~~ACC-SW03~~	NOT COLLECTED - INACCESSIBLE									

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Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
ACC-SW04	9/13/2011	1012	Surface water sample from AluCroix Channel		x			x		
ACC-SW05	9/13/2011	1107	Surface water sample from AluCroix Channel		x			x		
ACC-SW06	9/13/2011	1135	Surface water sample from AluCroix Channel		x			x		
ACC-SW07	9/13/2011	1147	Surface water sample from AluCroix Channel		x	x		x		
MAN-SW08	9/12/2011	1615	Surface water sample from coastal area		x			x		
MAN-SW09	9/12/2011	1045	Surface water sample from coastal area		x			x		
MAN-SW10	9/12/2011	1120	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW11	9/12/2011	1145	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW12	9/12/2011	1412	Surface water sample from coastal area		x			x		
MAN-SW13	9/12/2011	1530	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW14	9/12/2011	1715	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW15	9/12/2011	1700	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW16	9/12/2011	1430	Surface water sample from coastal area		x	x		x		
MAN-SW17	9/14/2011	1022	Surface water sample from coastal mangrove swamp		x			x		
~~MAN-SW18~~	NOT COLLECTED - FIELD DECISION									
MAN-SW19	9/15/2011	1012	Surface water sample from coastal area		x			x		
MAN-SW20	9/14/2011	1130	Surface water sample from mangrove swamp along former West Ditch (milky, white film on water surface)		x			x		
MAN-SW21	9/14/2011	1230	Surface water sample from mangrove swamp along former West Ditch (milky, white film on water surface)		x			x		
WES-SW22	9/14/2011	1632	Surface water sample from West Ditch		x			x		
WES-SW23	9/14/2011	1633	Duplicate of WES-SW22		x			x		
WES-SW24	9/14/2011	1722	Surface water sample from West Ditch		x			x		
~~WES-SW25~~	NO SAMPLE - NO WATER AT LOCATION									
LCP-SW26	9/14/2011	1019	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW27	9/14/2011	957	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW28	9/14/2011	1035	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW29	9/14/2011	1051	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW30	9/14/2011	1133	Surface water sample from Lower Cooling Pond, at outfall from Red Mud Area B		x			x		
LCP-SW31	9/14/2011	1044	Surface water sample from Lower Cooling Pond		x	x		x		
LCP-SW32	9/14/2011	1115	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW33	9/14/2011	1200	Surface water sample from Lower Cooling Pond		x			x		
UCP-SW34	9/14/2011	1620	Surface water sample from Upper Cooling Pond		x			x		
UCP-SW35	9/14/2011	1700	Surface water sample from Upper Cooling Pond	x	x			x		

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Table 2
Sample Descriptions and Analyses
St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
UCP-SW36	9/15/2011	1602	Surface water sample from Upper Cooling Pond		x	x		x		
UCP-SW37	9/14/2011	1738	Surface water sample from Upper Cooling Pond		x			x		
UCP-SW38	9/15/2011	1734	Surface water sample from Upper Cooling Pond		x			x		
UCP-SW39	9/14/2011	1720	Surface water sample from Upper Cooling Pond	x	x			x		
UCP-SW40	9/14/2011	1740	Surface water sample from Upper Cooling Pond		x			x		
UCP-SW41	9/14/2011	1805	Surface water sample from Upper Cooling Pond		x			x		
RMS-SW42	9/15/2011	901	Surface water sample from Settling Pond		x			x		
RMS-SW43	9/15/2011	902	Duplicate of RMS-SW42		x			x		
~~RMS-SW44~~	NOT COLLECTED - FIELD DECISION									
RMS-SW45	9/14/2011	1817	Surface water sample from Settling Pond	x	x	x		x		
RMS-SW46	9/15/2011	825	Surface water sample from Settling Pond		x			x		
~~RMS-SW47~~	NO SAMPLE - NO WATER AT LOCATION									
ADP-SW48	9/14/2011	1218	Surface water sample from Ash Disposal Pond		x			x		
ADP-SW49	9/14/2011	1205	Surface water sample from Ash Disposal Pond		x			x		
ADP-SW50	9/14/2011	1248	Surface water sample from Ash Disposal Pond		x	x		x		
ADP-SW51	9/14/2011	1318	Surface water sample from Ash Disposal Pond		x			x		
ACC-SW52	9/13/2011	1212	Surface water sample from intake arm on east side of AluCroix Channel		x			x		
BG-SW53	9/13/2011	1422	Background surface water sample from coastal area west of site		x	x		x		
BG-SW54	9/13/2011	1412	Background surface water sample from mouth of River Gut, west of site		x			x		
BG-SW55	9/13/2011	1447	Background surface water sample from River Gut, west of site		x	x		x		
BG-SW56	9/13/2011	1515	Background surface water sample from River Gut, west of site		x			x		
SW-RMA-WST12	*9/15/2011*	*1500*	*Water sample from ponded water at waste sample location RMA-WST12*	*x*						
RMA-SW57	*9/20/2011*	*1315*	*Storm water runoff from culvert at Red Mud Disposal Area A*	*x*	*x*	*x*				
Matrix: Sediment										
ACC-SD01	9/13/2011	957	Sediment sample from same location as ACC-SW01; yellow, coarse to fine sand with shell fragments		x	x			x	x
~~ACC-SD02~~	NOT COLLECTED - INACCESSIBLE									
~~ACC-SD03~~	NOT COLLECTED - INACCESSIBLE									
ACC-SD04	9/13/2011	1020	Sediment sample from same location as ACC-SW04; yellow, coarse to fine sand with shell fragments		x				x	x
ACC-SD05	9/13/2011	1110	Sediment sample from same location as ACC-SW05; brown silt and fine sand with organic root matter		x				x	x
ACC-SD06	9/13/2011	1140	Sediment sample from same location as ACC-SW06; yellow coarse to fine sand		x				x	x
ACC-SD07	9/13/2011	1150	Sediment sample from same location as ACC-SW07; yellow coarse to fine sand		x	x			x	x
MAN-SD08	9/12/2011	1620	Sediment sample from same location as MAN-SW08; yellow coarse to fine sand with shell pieces		x				x	x

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St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
MAN-SD09	9/12/2011	1047	Sediment sample from same location as MAN-SW09; yellow/tan coarse to fine sand with shell pieces		x				x	x
MAN-SD10	9/12/2011	1125	Sediment sample from same location as MAN-SW10; brown medium to fine sand with some clay and silt		x				x	x
MAN-SD11	9/12/2011	1147	Sediment sample from same location as MAN-SW11; brown fine sand with silt and clay		x				x	x
MAN-SD12	9/12/2011	1415	Sediment sample from same location as MAN-SW12; yellow/tan coarse to fine sand with some shell fragments		x				x	x
MAN-SD13	9/12/2011	1533	Sediment sample from same location as MAN-SW13; brown fine sand and silt with some clay		x				x	x
MAN-SD14	9/12/2011	1720	Sediment sample from same location as MAN-SW14; brown silt and clay with some fine sand		x				x	x
MAN-SD15	9/12/2011	1705	Sediment sample from same location as MAN-SW15; brown silt and clay with some fine sand		x				x	x
MAN-SD16	9/12/2011	1435	Sediment sample from same location as MAN-SW16; yellow coarse to fine sand with some shell pieces		x	x			x	x
MAN-SD17	9/14/2011	1025	Sediment sample from same location as MAN-SW17; yellow coarse sand w/shell fragments, mixed with red mud		x				x	x
~~MAN-SD18~~	NOT COLLECTED - FIELD DECISION									
MAN-SD19	9/15/2011	1016	Sediment sample from same location as MAN-SW19; yellow coarse to fine sand with shell fragments		x				x	x
MAN-SD20	9/14/2011	1140	Sediment sample from same location as MAN-SW20; red to dk-gray muck		x				x	x
MAN-SD21	9/14/2011	1235	Sediment sample from same location as MAN-SW21; medium-gray-brown muck		x				x	x
WES-SD22	9/14/2011	1637	Sediment sample from same location as WES-SW22; red mud in brown sediments		x				x	x
WES-SD23	9/14/2011	1638	Duplicate of WES-SD22		x				x	x
WES-SD24	9/14/2011	1727	Sediment sample from same location as WES-SW24; brown/black organic sediments		x				x	x
WES-SD25	9/15/2011	1657	Sediment sample from northern end of West Ditch; red silt and fine sand with some clay; no water at location		x				x	x
LCP-SD26	9/14/2011	1021	Sediment sample from same location as LCP-SW26; light-brown fine sand and silt with some pebbles		x				x	x
LCP-SD27	9/14/2011	1000	Sediment sample from same location as LCP-SW27; brown silt and fine sand with some clay and organics		x				x	x
LCP-SD28	9/14/2011	1037	Sediment sample from same location as LCP-SW28; yellow coarse to fine sand		x				x	x
LCP-SD29	9/14/2011	1054	Sediment sample from same location as LCP-SW29; brown medium to fine sand with some silt		x				x	x
LCP-SD30	9/14/2011	1136	Sediment sample from same location as LCP-SW30; brown silt, clay and some fine sand		x				x	x
LCP-SD31	9/14/2011	1050	Sediment sample from same location as LCP-SW31; thin red-mud film at surface, brown to dark-gray muck		x	x			x	x
LCP-SD32	9/14/2011	1120	Sediment sample from same location as LCP-SW32; red to brown muck		x				x	x
LCP-SD33	9/14/2011	1205	Sediment sample from same location as LCP-SW33; dense red mud nodules, 0-3"	x	x				x	x
UCP-SD34	9/14/2011	1625	Sediment sample from same location as UCP-SW34; red mud bank near spillway		x				x	x
UCP-SD35	9/14/2011	1705	Sediment sample from same location as UCP-SW35; red mud in mud flat sediments	x	x	x			x	x
UCP-SD36	9/15/2011	1605	Sediment sample from same location as UCP-SW36; red silt, clay, and fine sand		x	x			x	x
UCP-SD37	9/14/2011	1743	Sediment sample from same location as UCP-SW37; red mud, heavy silting	x	x				x	x
UCP-SD38	9/15/2011	1736	Sediment sample from same location as UCP-SW38; red fine sand, silt and clay		x				x	x
UCP-SD39	9/14/2011	1725	Sediment sample from same location as UCP-SW39; red clay with some fine sand, soft	x	x				x	x
UCP-SD40	9/14/2011	1745	Sediment sample from same location as UCP-SW40; red clay with trace fine sand, soft		x				x	x

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St. Croix Alumina (Renaissance Park) Site - September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
UCP-SD41	9/14/2011	1810	Sediment sample from same location as UCP-SW41; red clay with some silt and fine sand		x				x	x
RMS-SD42	9/15/2011	907	Sediment sample from same location as RMS-SW42; red clay and silt with some fine sand		x				x	x
RMS-SD43	9/15/2011	908	Duplicate of RMS-SD42		x				x	x
~~RMS-SD44~~	NOT COLLECTED - FIELD DECISION									
RMS-SD45	9/14/2011	1820	Sediment sample from same location as RMS-SW45; red clay with some silt and fine sand	x	x	x			x	x
RMS-SD46	9/15/2011	828	Sediment sample from same location as RMS-SW46; red clay with some fine sand and silt		x				x	x
RMS-SD47	9/15/2011	855	Sediment sample from same location as RMS-SW47; red clay with some fine sand and silt; no water at location		x				x	x
ADP-SD48	9/14/2011	1220	Sediment sample from same location as ADP-SW48; yellow coarse to fine sand		x				x	x
ADP-SD49	9/14/2011	1207	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	x	x				x	x
ADP-SD50	9/14/2011	1251	Sediment sample from same location as ADP-SW50; brown silt and clay with some fine sand		x	x			x	x
ADP-SD51	9/14/2011	1320	Sediment sample from same location as ADP-SW51; brown silt and clay with some fine sand		x				x	x
ACC-SD52	9/13/2011	1215	Sediment sample from same location as ACC-SW52; yellow-brown coarse to fine sand		x				x	x
BG-SD53	9/13/2011	1425	Sediment sample from same location as BG-SW53; yellow coarse to fine sand		x	x			x	x
BG-SD54	9/13/2011	1415	Sediment sample from same location as BG-SW54; yellow coarse to fine sand		x				x	x
BG-SD55	9/13/2011	1453	Sediment sample from same location as BG-SW55; brown fine sand and silt		x	x			x	x
BG-SD56	9/13/2011	1518	Sediment sample from same location as BG-SW56; brown fine sand and silt		x				x	x
RMA-SD57	*9/21/2011*	*1025*	*Sample from red mud depositional area south of Area A*	*x*	*x*	*x*				
RMA-SD58	*9/21/2011*	*1038*	*Sample from red mud depositional area south of Area A*	*x*	*x*					
RMA-SD59	*9/21/2011*	*1055*	*Sample from red mud depositional area south of Area A*	*x*	*x*	*x*				
RMA-SD60	*9/21/2011*	*1105*	*Sample from red mud depositional area south of Area A*	*x*	*x*					
RMA-SD61	*9/21/2011*	*1115*	*Sample from red mud depositional area south of Area A*	*x*	*x*					
RMA-SD62	*9/21/2011*	*1120*	*Sample from red mud depositional area south of Area A*	*x*	*x*	*x*				
RMA-SD63	*9/21/2011*	*1130*	*Duplicate of RMA-SD62*	*x*	*x*	*x*				
Matrix: Ground Water										
SCA-GW01	9/20/2011	1641	Unfiltered ground water sample from monitoring well VW37	x	x	x	x	x		
SCA-GW01F	9/20/2011	1641	Filtered ground water sample from monitoring well VW37		x					
SCA-GW02	9/19/2011	1125	Unfiltered ground water sample from monitoring well G-9	x	x		x	x		
SCA-GW02F	9/19/2011	1125	Filtered ground water sample from monitoring well G-9		x					
SCA-GW03	9/19/2011	1737	Unfiltered ground water sample from monitoring well VW16		x		x	x		
SCA-GW03F	9/19/2011	1737	Filtered ground water sample from monitoring well VW16		x					
SCA-GW04	9/19/2011	1406	Unfiltered ground water sample from monitoring well G-11		x	x	x	x		
SCA-GW04F	9/19/2011	1406	Filtered ground water sample from monitoring well G-11		x					

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SCA-GW05	9/21/2011	915	Unfiltered ground water sample from monitoring well GM-13D	x	x		x	x		
SCA-GW05F	9/21/2011	915	Filtered ground water sample from monitoring well GM-13D		x					
SCA-GW06	9/21/2011	1155	Unfiltered ground water sample from monitoring well GM-22	x	x	x	x	x		
SCA-GW06F	9/21/2011	1155	Filtered ground water sample from monitoring well GM-22		x					
SCA-GW07	9/19/2011	1551	Unfiltered ground water sample from monitoring well VW25	x	x		x	x		
SCA-GW07F	9/19/2011	1551	Filtered ground water sample from monitoring well VW25		x					
SCA-GW08	9/20/2011	1042	Unfiltered ground water sample from monitoring well GM-14	x	x		x	x		
SCA-GW08F	9/20/2011	1042	Filtered ground water sample from monitoring well GM-14		x					
SCA-GW09	9/20/2011	1230	Unfiltered ground water sample from monitoring well GM-19		x		x	x		
SCA-GW09F	9/20/2011	1230	Filtered ground water sample from monitoring well GM-19		x					
SCA-GW10	9/20/2011	900	Unfiltered ground water sample from monitoring well GM-18	x	x	x	x	x		
SCA-GW10F	9/20/2011	900	Filtered ground water sample from monitoring well GM-18		x					
SCA-GW11	9/20/2011	905	Duplicate of SCA-GW10		x	x	x	x		
SCA-GW11F	9/20/2011	905	Duplicate of SCA-GW10F		x					
Matrix: Blanks										
WST-RIN01	9/15/2011	1825	Rinsate blank (hand auger)	x	x	x				
WST-RIN02	9/16/2011	1521	Rinsate blank (hand auger)		x	x				
MW-RIN03	9/19/2011	1900	Rinsate blank (bladder pump)		x	x	x	x		
WST-RIN05	9/19/2011	730	Rinsate blank (hand auger)		x	x				
SD-RIN06	9/12/2011	1410	Rinsate blank (hand auger)		x					
SCA-TB01	9/19/2011	1045	Trip blank				x			
SCA-TB02	9/19/2011	1800	Trip blank				x			
SCA-TB03	9/20/2011	1810	Trip blank				x			
SCA-TB04	9/21/2011	1515	Trip blank				x			

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Table 3
pH Measurements (Highest to Lowest) - Solid Matrix Samples
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID	Sample ID	Sample Date	Sample Time	Matrix	Temp. (°C)	pH (std. units)
RMB-WST37	RMB-WST37B	9/19/2011	8:10	Waste	25.1	12.59
RMA-WST04	RMA-WST04B	9/15/2011	14:51	Waste	22.8	12.52
RMB-WST34	RMB-WST34B	9/19/2011	9:35	Waste	25.0	12.52
RMB-WST23	RMB-WST23B	9/19/2011	17:00	Waste	22.5	12.49
RMA-WST03	RMA-WST03B	9/15/2011	14:30	Waste	22.8	12.47
RMB-WST23	RMB-WST23C	9/19/2011	17:10	Waste	22.9	12.44
RMA-WST19	RMA-WST19B	9/16/2011	9:00	Waste	24.2	12.40
RMB-WST37	RMB-WST37A	9/19/2011	8:10	Waste	24.9	12.35
RMA-WST08	RMA-WST08B	9/16/2011	9:35	Waste	24.5	12.34
RMA-WST05	RMA-WST05B	9/15/2011	15:22	Waste	22.9	12.33
RMA-WST10	RMA-WST10A	9/16/2011	11:00	Waste	24.3	12.05
RMA-WST06	RMA-WST06B	9/15/2011	15:45	Waste	22.8	12.01
RMB-WST22	RMB-WST22B	9/19/2011	15:22	Waste	22.2	11.91
RMA-WST02	RMA-WST02B	9/15/2011	11:35	Waste	25.4	11.88
RMA-WST11	RMA-WST11B	9/16/2011	11:20	Waste	24.4	11.77
RMB-WST28	RMB-WST28B	9/19/2011	12:30	Waste	24.8	11.70
RMA-WST10	RMA-WST10B	9/16/2011	11:05	Waste	24.4	11.65
RMA-WST12	RMA-WST12B	9/15/2011	15:00	Waste	22.7	11.55
RMA-WST18	RMA-WST18B	9/15/2011	17:00	Waste	22.9	11.44
RMA-WST07	RMA-WST07B	9/16/2011	9:50	Waste	24.4	11.27
RMA-WST05	RMA-WST05A	9/15/2011	15:30	Waste	22.7	11.25
RMA-WST01	RMA-WST01C	9/16/2011	10:45	Waste	24.2	11.14
RMB-WST29	RMB-WST29B	9/19/2011	11:35	Waste	24.8	11.13
RMA-WST01	RMA-WST01B	9/16/2011	10:40	Waste	24.5	11.11
RMA-WST08	RMA-WST08A	9/16/2011	9:35	Waste	24.5	11.10
RMA-WST11	RMA-WST11C	9/16/2011	11:25	Waste	24.0	11.05
RMB-WST23	RMB-WST23A	9/19/2011	15:55	Waste	22.3	11.05
RMB-WST22	RMB-WST22A	9/19/2011	15:20	Waste	22.2	11.02
RMA-WST12	RMA-WST12A	9/15/2011	11:20	Waste	25.4	10.99
FBS-WST45	FBS-WST45A	9/20/2011	9:35	Waste	23.6	10.93
RMA-WST09	RMA-WST09B	9/16/2011	9:15	Waste	24.3	10.91
RMA-WST18	RMA-WST18A	9/15/2011	17:00	Waste	22.9	10.91
RMB-WST34	RMB-WST34A	9/19/2011	9:35	Waste	25.0	10.91
RMA-WST13	RMA-WST13A	9/15/2011	13:16	Waste	22.8	10.88
RMA-WST06	RMA-WST06A	9/16/2011	15:45	Waste	22.6	10.87
RMA-WST07	RMA-WST07A	9/16/2011	9:50	Waste	24.3	10.82
RMA-WST03	RMA-WST03A	9/15/2011	10:30	Waste	25.5	10.81
RMA-WST20	RMA-WST20A	9/15/2011	16:35	Waste	22.7	10.80
RMA-WST19	RMA-WST19A	9/16/2011	9:00	Waste	24.2	10.78

Table 3
pH Measurements (Highest to Lowest) - Solid Matrix Samples
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID	Sample ID	Sample Date	Sample Time	Matrix	Temp. (°C)	pH (std. units)
RMA-WST11	RMA-WST11A	9/16/2011	11:20	Waste	24.3	10.75
RMA-WST17	RMA-WST17A	9/16/2011	14:00	Waste	22.9	10.74
RMA-WST09	RMA-WST09A	9/16/2011	9:15	Waste	24.4	10.71
RMA-WSTR01	RMA-WSTR01A	9/21/2011	9:00	Waste	25.6	10.69
RMB-WST30	RMB-WST30A	9/19/2011	12:10	Waste	24.8	10.69
RMA-WST14	RMA-WST14B	9/16/2011	14:50	Waste	22.8	10.67
RMA-WST02	RMA-WST02A	9/15/2011	8:10	Waste	25.4	10.66
RMA-WST16	RMA-WST16B	9/16/2011	14:15	Waste	22.9	10.65
RMB-WST30	RMB-WST30B	9/19/2011	12:10	Waste	25.1	10.62
RMA-WST16	RMA-WST16A	9/16/2011	14:15	Waste	22.9	10.61
RMA-WST13	RMA-WST13B	9/15/2011	16:15	Waste	22.8	10.58
RMA-WST04	RMA-WST04A	9/15/2011	10:55	Waste	25.4	10.57
RMA-WST17	RMA-WST17B	9/16/2011	14:00	Waste	22.9	10.57
RMB-WST28	RMB-WST28A	9/19/2011	12:30	Waste	24.9	10.57
RMB-WST29	RMB-WST29A	9/19/2011	11:35	Waste	24.7	10.54
RMA-WST02	RMA-WSTR02A	9/21/2011	9:15	Waste	25.5	10.53
FBS-WST44	FBS-WST44A	9/20/2011	9:25	Waste	24.0	10.50
RMA-SD57	RMA-SD57	9/21/2011	10:25	Waste	25.8	10.48
RMA-SD58	RMA-SD58	9/21/2011	10:38	Waste	25.9	10.48
RMS-SW42	RMS-SD42	9/15/2011	9:07	Sediment	25.0	10.48
RMS-SW42	RMS-SD43	9/15/2011	9:08	Sediment	25.1	10.40
RMB-WST39	RMB-WST39A	9/19/2011	8:00	Waste	25.1	10.35
RMA-WST14	RMA-WST14A	9/16/2011	14:50	Waste	22.6	10.33
RMB-WST24	RMB-WST24A	9/19/2011	17:40	Waste	22.7	10.30
FBS-WST46	FBS-WST46A	9/20/2011	9:50	Waste	23.7	10.29
RMA-WST15	RMA-WST15A	9/16/2011	14:35	Waste	22.8	10.23
RMS-SW47	RMS-SD47	9/15/2011	8:55	Sediment	25.0	10.20
UCP-SW41	UCP-SD41	9/14/2011	18:10	Sediment	25.4	10.20
ADP-WST41	ADP-WST41A	9/19/2011	10:15	Waste	25.0	10.17
RMS-SW45	RMS-SD45	9/14/2011	18:20	Sediment	25.4	10.15
RMA-WST20	RMA-WST20B	9/15/2011	16:40	Waste	23.1	10.12
RMB-WST38	RMB-WST38A	9/19/2011	8:35	Waste	25.1	10.09
RMA-SD63	RMA-SD63	9/21/2011	11:30	Waste	25.7	9.98
RMB-WST39	RMB-WST39B	9/19/2011	8:00	Waste	25.2	9.89
RMA-SD59	RMA-SD59	9/21/2011	10:55	Waste	25.7	9.86
RMA-SD60	RMA-SD60	9/21/2011	11:05	Waste	25.8	9.85
RMA-SD62	RMA-SD62	9/21/2011	11:20	Waste	25.9	9.84
ADP-WST42	ADP-WST42A	9/19/2011	10:35	Waste	25.2	9.83
RMS-SW46	RMS-SD46	9/15/2011	8:28	Sediment	25.1	9.68

Table 3
pH Measurements (Highest to Lowest) - Solid Matrix Samples
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID	Sample ID	Sample Date	Sample Time	Matrix	Temp. (°C)	pH (std. units)
ADP-SW50	ADP-SD50	9/14/2011	12:51	Sediment	25.5	9.50
RMA-WST01	RMA-WST01A	9/16/2011	10:40	Waste	24.5	9.45
ADP-SW49	ADP-SD49	9/14/2011	12:07	Sediment	25.4	9.21
RMB-WST32	RMB-WST32A	9/19/2011	12:45	Waste	24.9	9.14
ADP-SW51	ADP-SD51	9/14/2011	13:20	Sediment	25.4	9.07
FBS-WST43	FBS-WST43A	9/21/2011	10:00	Waste	25.7	9.02
ADP-SW48	ADP-SD48	9/14/2011	12:20	Sediment	25.2	8.99
RMB-WST36	RMB-WST36A	9/19/2011	9:20	Waste	25.4	8.69
MAN-SW12	MAN-SD12	9/12/2011	14:15	Sediment	25.0	8.65
MAN-SW08	MAN-SD08	9/12/2011	16:20	Sediment	24.7	8.64
LCP-SW30	LCP-SD30	9/14/2011	11:36	Sediment	25.7	8.58
ACC-SW07	ACC-SD07	9/13/2011	11:50	Sediment	25.0	8.55
ACC-SW52	ACC-SD52	9/13/2011	12:15	Sediment	25.1	8.54
MAN-SW16	MAN-SD16	9/12/2011	14:35	Sediment	24.7	8.38
WES-SW25	WES-SD25	9/16/2011	16:57	Sediment	22.7	8.38
LCP-SW28	LCP-SD28	9/14/2011	10:37	Sediment	25.6	8.31
ADP-WST42	ADP-WST42B	9/19/2011	10:35	Waste	24.6	8.27
UCP-SW40	UCP-SD40	9/14/2011	17:45	Sediment	25.1	8.27
UCP-SW36	UCP-SD36	9/15/2011	16:05	Sediment	23.0	8.23
BG-SW56	BG-SD56	9/13/2011	15:18	Sediment	25.7	8.20
BG-SW55	BG-SD55	9/13/2011	14:53	Sediment	25.6	8.12
LCP-SW26	LCP-SD26	9/14/2011	10:21	Sediment	25.6	8.09
ACC-SW06	ACC-SD06	9/13/2011	11:40	Sediment	25.0	8.08
RMB-WST40	RMB-WST40A	9/19/2011	12:00	Waste	24.6	8.06
ACC-SW04	ACC-SD04	9/13/2011	10:20	Sediment	25.1	8.02
UCP-SW34	UCP-SD34	9/14/2011	16:25	Sediment	25.4	8.01
UCP-SW39	UCP-SD39	9/14/2011	17:25	Sediment	25.4	7.99
UCP-SW38	UCP-SD38	9/16/2011	17:36	Sediment	22.9	7.97
WES-SW22	WES-SD23	9/14/2011	16:38	Sediment	25.5	7.96
LCP-SW33	LCP-SD33	9/14/2011	12:05	Sediment	25.7	7.89
LCP-SW29	LCP-SD29	9/14/2011	10:54	Sediment	25.5	7.88
BG-SW54	BG-SD54	9/13/2011	14:15	Sediment	25.7	7.86
MAN-SW15	MAN-SD15	9/12/2011	17:05	Sediment	24.7	7.83
LCP-SW31	LCP-SD31	9/14/2011	10:50	Sediment	25.4	7.82
BG-S16	BG-S16A	9/21/2011	8:10	Soil	25.4	7.81
BG-S01	BG-S01	9/12/2011	10:00	Soil	24.2	7.80
UCP-SW37	UCP-SD37	9/14/2011	17:43	Sediment	25.4	7.77
MAN-SW10	MAN-SD10	9/12/2011	11:25	Sediment	24.5	7.76
MAN-SW13	MAN-SD13	9/12/2011	15:33	Sediment	24.7	7.76

Table 3
pH Measurements (Highest to Lowest) - Solid Matrix Samples
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID	Sample ID	Sample Date	Sample Time	Matrix	Temp. (°C)	pH (std. units)
BG-S02	BG-SS02	9/12/2011	10:50	Soil	24.1	7.72
ACC-SW01	ACC-SD01	9/13/2011	9:57	Sediment	24.8	7.71
BG-S12	BG-S12	9/20/2011	17:25	Soil	23.8	7.70
WES-SW22	WES-SD22	9/14/2011	16:37	Sediment	25.4	7.70
MAN-SW19	MAN-SD19	9/15/2011	10:16	Sediment	25.3	7.69
UCP-SW35	UCP-SD35	9/14/2011	17:05	Sediment	25.6	7.69
WES-SW24	WES-SD24	9/14/2011	17:27	Sediment	25.5	7.68
MAN-SW09	MAN-SD09	9/12/2011	10:47	Sediment	24.4	7.65
MAN-SW21	MAN-SD21	9/14/2011	12:35	Sediment	25.9	7.65
MAN-SW20	MAN-SD20	9/14/2011	11:40	Sediment	25.7	7.64
MAN-SW14	MAN-SD14	9/12/2011	17:20	Sediment	24.6	7.63
MAN-SW17	MAN-SD17	9/14/2011	10:25	Sediment	25.9	7.60
BG-SW53	BG-SD53	9/13/2011	14:25	Sediment	25.3	7.56
RMA-SD61	RMA-SD61	9/21/2011	11:15	Waste	25.9	7.52
BG-S04	BG-S04	9/12/2011	13:47	Soil	24.8	7.50
BG-S05	BG-S05	9/12/2011	13:30	Soil	24.9	7.50
BG-S05	BG-S06	9/12/2011	13:35	Soil	24.9	7.50
BG-S02	BG-S02	9/12/2011	10:35	Soil	24.1	7.42
LCP-SW32	LCP-SD32	9/14/2011	11:20	Sediment	25.8	7.38
MAN-SW11	MAN-SD11	9/12/2011	11:47	Sediment	24.4	7.31
BG-S08	BG-S08	9/20/2011	17:00	Soil	23.7	7.30
LCP-SW27	LCP-SD27	9/14/2011	10:00	Sediment	25.4	7.30
BG-S13	BG-S13	9/20/2011	17:30	Soil	23.7	7.29
BG-S14	BG-S14	9/20/2011	17:40	Soil	23.7	7.29
BG-S11	BG-S11	9/20/2011	17:20	Soil	23.6	7.26
ACC-SW05	ACC-SD05	9/13/2011	11:10	Sediment	25.6	7.21
BG-S15	BG-S15	9/20/2011	17:45	Soil	23.5	7.19
BG-S10	BG-S10	9/20/2011	17:15	Soil	23.7	7.13
BG-S03	BG-S03	9/12/2011	13:00	Soil	24.2	7.03
BG-S09	BG-S09	9/20/2011	17:10	Soil	23.6	7.03
ADP-WST41	ADP-WST41B	9/19/2011	10:15	Waste	25.4	6.99
BG-S07	BG-S07	9/20/2011	16:50	Soil	23.5	6.96
ADP-WST41	ADP-WST41C	9/19/2011	10:20	Waste	25.5	6.83

Table 4
pH Measurements (Highest to Lowest) - Aqueous Samples
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID	Sample ID	Sample Date	Sample Time	Matrix	pH
GM-22	SCA-GW06	9/21/2011	11:55	Ground Water	12.78
RMA	RMA-SW57	9/20/2011	13:15	Runoff	10.55
RMA-WST12	SW-RMA-WST12	9/15/2011	15:00	Ponded Water	10.43
LCP-SW30	LCP-SW30	9/14/2011	11:33	Surface Water	10.16
RMS-SW42	RMS-SW42	9/15/2011	9:01	Surface Water	10.10
RMS-SW42	RMS-SW43	9/15/2011	9:02	Surface Water	10.10
UCP-SW41	UCP-SW41	9/14/2011	18:05	Surface Water	9.88
RMS-SW45	RMS-SW45	9/14/2011	18:17	Surface Water	9.85
ADP-SW49	ADP-SW49	9/14/2011	12:05	Surface Water	9.65
ADP-SW48	ADP-SW48	9/14/2011	12:18	Surface Water	9.61
ADP-SW50	ADP-SW50	9/14/2011	12:48	Surface Water	9.61
ADP-SW51	ADP-SW51	9/14/2011	13:18	Surface Water	9.57
RMS-SW46	RMS-SW46	9/15/2011	8:25	Surface Water	9.53
ACC-SW01	ACC-SW01	9/13/2011	9:52	Surface Water	9.31
GM-13D	SCA-GW05	9/21/2011	9:15	Ground Water	9.28
MAN-SW15	MAN-SW15	9/12/2011	17:00	Surface Water	9.06
LCP-SW31	LCP-SW31	9/14/2011	10:44	Surface Water	8.85
UCP-SW37	UCP-SW37	9/14/2011	17:38	Surface Water	8.79
LCP-SW29	LCP-SW29	9/14/2011	10:51	Surface Water	8.75
MAN-SW14	MAN-SW14	9/12/2011	17:15	Surface Water	8.67
MAN-SW17	MAN-SW17	9/14/2011	10:22	Surface Water	8.65
UCP-SW36	UCP-SW36	9/15/2011	16:02	Surface Water	8.65
MAN-SW13	MAN-SW13	9/12/2011	15:30	Surface Water	8.52
LCP-SW27	LCP-SW27	9/14/2011	9:57	Surface Water	8.50
ACC-SW07	ACC-SW07	9/13/2011	11:47	Surface Water	8.44
UCP-SW38	UCP-SW38	9/15/2011	19:34	Surface Water	8.40
MAN-SW11	MAN-SW11	9/12/2011	11:45	Surface Water	8.30
UCP-SW40	UCP-SW40	9/14/2011	17:40	Surface Water	8.27
LCP-SW26	LCP-SW26	9/14/2011	10:19	Surface Water	8.18
UCP-SW34	UCP-SW34	9/14/2011	16:20	Surface Water	8.18
UCP-SW39	UCP-SW39	9/14/2011	17:20	Surface Water	8.18
UCP-SW35	UCP-SW35	9/14/2011	17:00	Surface Water	8.17
MAN-SW12	MAN-SW12	9/12/2011	14:12	Surface Water	8.13
LCP-SW28	LCP-SW28	9/14/2011	10:55	Surface Water	8.10
WES-SW24	WES-SW24	9/14/2011	17:22	Surface Water	8.10
ACC-SW52	ACC-SW52	9/13/2011	12:12	Surface Water	8.08
MAN-SW08	MAN-SW08	9/12/2011	16:15	Surface Water	8.06
ACC-SW04	ACC-SW04	9/13/2011	10:12	Surface Water	8.05

Table 4
pH Measurements (Highest to Lowest) - Aqueous Samples
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID	Sample ID	Sample Date	Sample Time	Matrix	pH
ACC-SW06	ACC-SW06	9/13/2011	11:35	Surface Water	8.05
LCP-SW32	LCP-SW32	9/14/2011	11:15	Surface Water	8.05
LCP-SW33	LCP-SW33	9/14/2011	12:00	Surface Water	8.05
MAN-SW16	MAN-SW16	9/12/2011	14:30	Surface Water	8.05
WES-SW22	WES-SW22	9/14/2011	16:32	Surface Water	8.05
WES-SW22	WES-SW23	9/14/2011	16:33	Surface Water	8.05
GM-18	SCA-GW10	9/20/2011	9:00	Ground Water	7.98
GM-18	SCA-GW11	9/20/2011	9:05	Ground Water	7.98
MAN-SW19	MAN-SW19	9/15/2011	10:12	Surface Water	7.90
BG-SW55	BG-SW55	9/13/2011	14:47	Surface Water	7.89
MAN-SW20	MAN-SW20	9/14/2011	11:30	Surface Water	7.85
MAN-SW10	MAN-SW10	9/12/2011	11:20	Surface Water	7.79
G-11	SCA-GW04	9/19/2011	14:06	Ground Water	7.76
MAN-SW09	MAN-SW09	9/12/2011	10:45	Surface Water	7.75
MAN-SW21	MAN-SW21	9/14/2011	12:30	Surface Water	7.62
ACC-SW05	ACC-SW05	9/13/2011	11:07	Surface Water	7.55
GM-19	SCA-GW09	9/20/2011	12:30	Ground Water	7.55
BG-SW54	BG-SW54	9/13/2011	14:12	Surface Water	7.54
BG-SW56	BG-SW56	9/13/2011	15:15	Surface Water	7.54
VW37	SCA-GW01	9/20/2011	16:41	Ground Water	7.51
GM-14	SCA-GW08	9/20/2011	10:22	Ground Water	7.40
G-9	SCA-GW02	9/19/2011	11:25	Ground Water	7.27
VW25	SCA-GW07	9/19/2011	15:51	Ground Water	7.19
BG-SW53	BG-SW53	9/13/2011	14:22	Surface Water	6.98
VW16	SCA-GW03	9/19/2011	17:37	Ground Water	6.72

Table 5
Sample Dispatch and COC Information - CHEMTECH
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	CLP Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/13/2011	873693948798	2-091311-151533-0004	ACC-SD01	B56Z5	9/13/2011	9:57	Sediment	CLP TCL Semivolatiles/Aroclors	MS/MSD
			ACC-SD07	B56Z8	9/13/2011	11:50	Sediment	CLP TCL Semivolatiles/Aroclors	
			ACC-SW07	B98S9	9/13/2011	11:47	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			BG-S01	B56Z1	9/12/2011	10:00	Soil	CLP TCL Semivolatiles/Aroclors	
			BG-S05	B56Z3	9/12/2011	13:30	Soil	CLP TCL Semivolatiles/Aroclors	
			BG-S06	B56Z4	9/12/2011	13:35	Soil	CLP TCL Semivolatiles/Aroclors	Field Duplicate of BG-S05
			MAN-SD16	B56Z9	9/12/2011	14:35	Sediment	CLP TCL Semivolatiles/Aroclors	
			MAN-SW16	B98N2	9/12/2011	14:30	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
		2-091311-151747-0005	ACC-SW01	B98S3	9/13/2011	9:52	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	MS/MSD
9/14/2011	873693948813	2-091411-110922-0008	BG-SD53	B5716	9/13/2011	14:25	Sediment	CLP TCL Semivolatiles/Aroclors	
			BG-SD55	B5717	9/13/2011	14:53	Sediment	CLP TCL Semivolatiles/Aroclors	
			BG-SW53	B98R9	9/13/2011	14:22	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			BG-SW55	B98S1	9/13/2011	14:47	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
9/15/2011	873693945170	2-091411-180133-0010	ADP-SD50	B5715	9/14/2011	12:51	Sediment	CLP TCL Semivolatiles/Aroclors	
			ADP-SW50	B98R6	9/14/2011	12:48	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			LCP-SD31	B5718	9/14/2011	10:50	Sediment	CLP TCL Semivolatiles/Aroclors	
			LCP-SW31	B98P7	9/14/2011	10:44	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
		2-091511-152733-0015	RMS-SD45	B5720	9/14/2011	18:20	Sediment	CLP TCL Semivolatiles/Aroclors	
			RMS-SW45	B98R1	9/14/2011	18:17	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			UCP-SD35	B5719	9/14/2011	17:05	Sediment	CLP TCL Semivolatiles/Aroclors	
9/16/2011	874731027546	2-091611-112835-0019	UCP-SW36	B5721	9/15/2011	16:02	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			WST-RIN01	B98L3	9/15/2011	18:25	QA/QC	CLP TCL Semivolatiles	Rinsate Blank
								CLP TCL Aroclors	

Table 5
Sample Dispatch and COC Information - CHEMTECH
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	CLP Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/19/2011	868315994718	2-091911-091117-0024	RMA-WST01B	B5724	9/16/2011	10:40	Waste	CLP TCL Semivolatiles/Aroclors	pH > 11
			RMA-WST01C	B5725	9/16/2011	10:45	Waste	CLP TCL Semivolatiles/Aroclors	Field Duplicate of RMA-WST01B; pH > 11
			RMA-WST06B	B5727	9/15/2011	15:45	Waste	CLP TCL Semivolatiles/Aroclors	pH > 11
			RMA-WST12B	B5729	9/15/2011	15:00	Waste	CLP TCL Semivolatiles/Aroclors	pH > 11
	874731024753	2-091611-161158-0022	RMA-WST01A	B5723	9/16/2011	10:40	Waste	CLP TCL Semivolatiles/Aroclors	MS/MSD
			RMA-WST06A	B5726	9/16/2011	15:45	Waste	CLP TCL Semivolatiles/Aroclors	
			RMA-WST12A	B5728	9/15/2011	11:20	Waste	CLP TCL Semivolatiles/Aroclors	
			UCP-SD36	B5722	9/15/2011	16:05	Sediment	CLP TCL Semivolatiles/Aroclors	
			WST-RIN02	B98L4	9/16/2011	15:21	QA/QC	CLP TCL Semivolatiles	Rinsate Blank
								CLP TCL Aroclors	
		2-091911-155948-0027	SCA-GW02	B98T2	9/19/2011	11:25	Ground Water	CLP TCL Volatiles	
			SCA-GW04	B98T6	9/19/2011	14:06	Ground Water	CLP TCL Semivolatiles	
								CLP TCL Volatiles	
								CLP TCL Aroclors	
			SCA-GW07	B98W2	9/19/2011	15:51	Ground Water	CLP TCL Volatiles	
			SCA-TB01	B98L9	9/19/2011	10:45	QA/QC	CLP TCL Volatiles	Trip Blank
9/20/2011	874731024742	2-092011-084645-0028	MW-RIN03	B98L5	9/19/2011	19:00	QA/QC	CLP TCL Volatiles	Rinsate Blank
								CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			SCA-GW03	B98T4	9/19/2011	17:37	Ground Water	CLP TCL Volatiles	
			SCA-GW08	B98W4	9/20/2011	10:42	Ground Water	CLP TCL Volatiles	
			SCA-GW09	B98W6	9/20/2011	12:30	Ground Water	CLP TCL Volatiles	
			SCA-GW10	B98W8	9/20/2011	9:00	Ground Water	CLP TCL Volatiles	
			SCA-GW11	B98X0	9/20/2011	9:05	Ground Water	CLP TCL Volatiles	Field Duplicate of SCA-GW10
			SCA-TB02	B98M0	9/19/2011	18:00	QA/QC	CLP TCL Volatiles	Trip Blank
			WST-RIN05	B98L7	9/19/2011	7:30	QA/QC	CLP TCL Aroclors	Rinsate Blank
								CLP TCL Semivolatiles	

Table 5
Sample Dispatch and COC Information - CHEMTECH
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	CLP Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/20/2011 (cont'd)	874731024742 (cont'd)	2-092011-154832-0033	RMA-SW57	B4A18	9/20/2011	13:15	Surface Water	CLP TCL Aroclors	
								CLP TCL Semivolatiles	
			SCA-GW10	B98W8	9/20/2011	9:00	Ground Water	CLP TCL Aroclors	
								CLP TCL Semivolatiles	
			SCA-GW11	B98X0	9/20/2011	9:05	Ground Water	CLP TCL Aroclors	Field Duplicate of SCA-GW10
								CLP TCL Semivolatiles	
9/21/2011	874731024786	2-092111-105601-0035	SCA-GW01	B98T0	9/20/2011	16:41	Ground Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	MS/MSD
			SCA-GW05	B98T8	9/21/2011	9:15	Ground Water	CLP TCL Volatiles	
			SCA-TB03	B98M1	9/20/2011	18:10	QA/QC	CLP TCL Volatiles	Trip Blank
		2-092111-154225-0041	ADP-WST41B	B4A16	9/19/2011	10:15	Waste	CLP TCL Semivolatiles/Aroclors	
			ADP-WST41C	B4A17	9/19/2011	10:20	Waste	CLP TCL Semivolatiles/Aroclors	Field Duplicate of ADP-WST41B
			ADP-WST42A	B4A15	9/19/2011	10:35	Waste	CLP TCL Semivolatiles/Aroclors	MS/MSD
			ADP-WST42B	B4A25	9/19/2011	10:35	Waste	CLP TCL Semivolatiles/Aroclors	
			BG-S16A	B4A20	9/21/2011	8:10	Soil	CLP TCL Semivolatiles/Aroclors	
			RMA-SD57	B4A21	9/21/2011	10:25	Sediment	CLP TCL Semivolatiles/Aroclors	
			RMA-SD59	B4A22	9/21/2011	10:55	Sediment	CLP TCL Semivolatiles/Aroclors	
			RMA-SD62	B4A23	9/21/2011	11:20	Sediment	CLP TCL Semivolatiles/Aroclors	
			RMA-SD63	B4A24	9/21/2011	11:30	Sediment	CLP TCL Semivolatiles/Aroclors	Field Duplicate of RMA-SD62
			RMB-WST36A	B4A13	9/19/2011	9:20	Waste	CLP TCL Semivolatiles/Aroclors	
9/22/2011	868315994751	2-092111-151619-0039	SCA-GW06	B98W0	9/21/2011	11:55	Ground Water	CLP TCL Volatiles	pH > 11
								CLP TCL Semivolatiles	pH > 11
			SCA-TB04	B98M2	9/21/2011	15:15	QA/QC	CLP TCL Volatiles	Trip Blank
		2-092111-152631-0040	SCA-GW06	B98W0	9/21/2011	11:55	Ground Water	CLP TCL Aroclors	pH > 11

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/12/2011	873693948787	2-091211-154400-0001	BG-S01	9/12/2011	10:00	Soil	TAL Inorganics (incl. Hg)	
			BG-S02	9/12/2011	10:35	Soil	TAL Inorganics (incl. Hg)	
			BG-S03	9/12/2011	13:00	Soil	TAL Inorganics (incl. Hg)	
			BG-S04	9/12/2011	13:47	Soil	TAL Inorganics (incl. Hg)	
			BG-S05	9/12/2011	13:30	Soil	TAL Inorganics (incl. Hg)	
			BG-S06	9/12/2011	13:35	Soil	TAL Inorganics (incl. Hg)	Field Duplicate of BG-S05
			BG-SS02	9/12/2011	10:50	Soil	TAL Inorganics (incl. Hg)	
			MAN-SD09	9/12/2011	10:47	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD10	9/12/2011	11:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD11	9/12/2011	11:47	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SW09	9/12/2011	10:45	Surface Water	TAL Inorganics (incl. Hg)	Not preserved with HNO_3
							Chlorides	
			MAN-SW10	9/12/2011	11:20	Surface Water	TAL Inorganics (incl. Hg)	Not preserved with HNO_3
							Chlorides	
			MAN-SW11	9/12/2011	11:45	Surface Water	TAL Inorganics (incl. Hg)	Not preserved with HNO_3
							Chlorides	
9/13/2011	874731027524	2-091311-090226-0002	MAN-SD08	9/12/2011	16:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD12	9/12/2011	14:15	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/13/2011 (cont'd)	874731027524 (cont'd)	2-091311-090226-0002 (cont'd))	MAN-SD13	9/12/2011	15:33	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD14	9/12/2011	17:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD15	9/12/2011	17:05	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD16	9/12/2011	14:35	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SW08	9/12/2011	16:15	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW12	9/12/2011	14:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW13	9/12/2011	15:30	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SD-RIN06	9/12/2011	14:10	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
		2-091311-151335-0003	ACC-SD01	9/13/2011	9:57	Sediment	TAL Inorganics (incl. Hg)	MS/MSD
							Total Organic Carbon	
							Particle Size	
			ACC-SD04	9/13/2011	10:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			ACC-SD05	9/13/2011	11:10	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			ACC-SD06	9/13/2011	11:40	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/13/2011 (cont'd)	874731027524 (cont'd)	2-091311-151335-0003 (cont'd)	ACC-SD07	9/13/2011	11:50	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			ACC-SD52	9/13/2011	12:15	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
		2-091311-155400-0006	ACC-SW01	9/13/2011	9:52	Surface Water	TAL Inorganics (incl. Hg)	MS/MSD
							Chlorides	
			ACC-SW04	9/13/2011	10:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ACC-SW05	9/13/2011	11:07	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ACC-SW06	9/13/2011	11:35	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ACC-SW07	9/13/2011	11:47	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ACC-SW52	9/13/2011	12:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW14	9/12/2011	17:15	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW15	9/12/2011	17:00	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW16	9/12/2011	14:30	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
9/14/2011	873693948802	2-091411-110541-0007	BG-SD53	9/13/2011	14:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			BG-SD54	9/13/2011	14:15	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			BG-SD55	9/13/2011	14:53	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			BG-SD56	9/13/2011	15:18	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			BG-SW53	9/13/2011	14:22	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/14/2011 (cont'd)	873693948802 (cont'd)	2-091411-110541-0007 (cont'd)	BG-SW54	9/13/2011	14:12	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			BG-SW55	9/13/2011	14:47	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			BG-SW56	9/13/2011	15:15	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
9/15/2011	874731027535	2-091411-182630-0011	ADP-SW48	9/14/2011	12:18	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			ADP-SW50	9/14/2011	12:48	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			ADP-SW51	9/14/2011	13:18	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			LCP-SW26	9/14/2011	10:19	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			LCP-SW27	9/14/2011	9:57	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			LCP-SW28	9/14/2011	10:55	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			LCP-SW29	9/14/2011	10:51	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			LCP-SW30	9/14/2011	11:33	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
		2-091511-113612-0012	LCP-SD31	9/14/2011	10:50	Sediment	TAL Inorganics (incl. Hg) Total Organic Carbon	
			LCP-SD32	9/14/2011	11:20	Sediment	TAL Inorganics (incl. Hg) Total Organic Carbon	
			LCP-SD33	9/14/2011	12:05	Sediment	TAL Inorganics (incl. Hg) Total Organic Carbon	
			LCP-SW31	9/14/2011	10:44	Surface Water	TAL Inorganics (incl. Hg) Chlorides	
			LCP-SW32	9/14/2011	11:15	Surface Water	TAL Inorganics (incl. Hg) Chlorides	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/15/2011 (cont'd)	874731027535 (cont'd)	2-091511-113612-0012 (cont'd)	LCP-SW33	9/14/2011	12:00	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SD17	9/14/2011	10:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			MAN-SD20	9/14/2011	11:40	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			MAN-SD21	9/14/2011	12:35	Sediment	TAL Inorganics (incl. Hg)	MS/MSD
							Total Organic Carbon	
			MAN-SW17	9/14/2011	10:22	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW20	9/14/2011	11:30	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW21	9/14/2011	12:30	Surface Water	TAL Inorganics (incl. Hg)	MS/MSD
							Chlorides	
		2-091511-125944-0013	UCP-SD34	9/14/2011	16:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SD35	9/14/2011	17:05	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SD37	9/14/2011	17:43	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SW39	9/14/2011	17:20	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW41	9/14/2011	18:05	Surface Water	TAL Inorganics (incl. Hg)	MS/MSD
							Chlorides	
			WES-SD22	9/14/2011	16:37	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			WES-SD23	9/14/2011	16:38	Sediment	TAL Inorganics (incl. Hg)	Field Duplicate of WES-SD22
							Total Organic Carbon	
			WES-SD24	9/14/2011	17:27	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/15/2011 (cont'd)	874731027535 (cont'd)	2-091511-134842-0014	ADP-SW49	9/14/2011	12:05	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			RMS-SW45	9/14/2011	18:17	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW34	9/14/2011	16:20	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW35	9/14/2011	17:00	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW37	9/14/2011	17:38	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW40	9/14/2011	17:40	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			WES-SW22	9/14/2011	16:32	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			WES-SW23	9/14/2011	16:33	Surface Water	TAL Inorganics (incl. Hg)	Field Duplicate of WES-SW22
							Chlorides	
			WES-SW24	9/14/2011	17:22	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
		2-091511-153211-0016	MAN-SD19	9/15/2011	10:16	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			RMS-SD42	9/15/2011	9:07	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			RMS-SD43	9/15/2011	9:08	Sediment	TAL Inorganics (incl. Hg)	Field Duplicate of RMS-SD42
							Total Organic Carbon	
			RMS-SD45	9/14/2011	18:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			RMS-SD46	9/15/2011	8:28	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			RMS-SD47	9/15/2011	8:55	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SD39	9/14/2011	17:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	

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Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/15/2011 (cont'd)	874731027535 (cont'd)	2-091511-153211-0016 (cont'd)	UCP-SD40	9/14/2011	17:45	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SD41	9/14/2011	18:10	Sediment	TAL Inorganics (incl. Hg)	MS/MSD
							Total Organic Carbon	
9/16/2011	874731024694	2-091611-095356-0018	UCP-SW36	9/15/2011	16:02	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW38	9/15/2011	19:34	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			WST-RIN01	9/15/2011	18:25	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
			WST-RIN02	9/16/2011	15:21	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
	874731027557	2-091411-111232-0009	ADP-SD50	9/14/2011	12:51	Sediment	Particle Size	
			BG-SD53	9/13/2011	14:25	Sediment	Particle Size	
			BG-SD54	9/13/2011	14:15	Sediment	Particle Size	
			BG-SD55	9/13/2011	14:53	Sediment	Particle Size	
			BG-SD56	9/13/2011	15:18	Sediment	Particle Size	
			LCP-SD28	9/14/2011	10:37	Sediment	Particle Size	
			LCP-SD30	9/14/2011	11:36	Sediment	Particle Size	
			LCP-SD31	9/14/2011	10:50	Sediment	Particle Size	
			LCP-SD32	9/14/2011	11:20	Sediment	Particle Size	
			LCP-SD33	9/14/2011	12:05	Sediment	Particle Size	
			MAN-SD17	9/14/2011	10:25	Sediment	Particle Size	
			MAN-SD20	9/14/2011	11:40	Sediment	Particle Size	
			MAN-SD21	9/14/2011	12:35	Sediment	Particle Size	
			UCP-SD36	9/15/2011	16:05	Sediment	Particle Size	
			UCP-SD38	9/16/2011	17:36	Sediment	Particle Size	
			WES-SD25	9/15/2011	16:57	Sediment	Particle Size	
		2-091611-084744-0017	ADP-SD48	9/14/2011	12:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			ADP-SD49	9/14/2011	12:07	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			ADP-SD50	9/14/2011	12:51	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	

Table 6
Sample Dispatch and COC Information - DESA
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Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/16/2011 (cont'd)	874731027557 (cont'd)	2-091611-084744-0017 (cont'd)	ADP-SD51	9/14/2011	13:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD26	9/14/2011	10:21	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD27	9/14/2011	10:00	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD28	9/14/2011	10:37	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD29	9/14/2011	10:54	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD30	9/14/2011	11:36	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			MAN-SW19	9/15/2011	10:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			RMS-SW42	9/15/2011	9:01	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			RMS-SW43	9/15/2011	9:02	Surface Water	TAL Inorganics (incl. Hg)	Field Duplicate of RMS-SW42
							Chlorides	
			RMS-SW46	9/15/2011	8:25	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
		2-091611-123015-0020	ADP-SD48	9/14/2011	12:20	Sediment	Particle Size	
			ADP-SD49	9/14/2011	12:07	Sediment	Particle Size	
			ADP-SD51	9/14/2011	13:20	Sediment	Particle Size	
			LCP-SD26	9/14/2011	10:21	Sediment	Particle Size	
			LCP-SD27	9/14/2011	10:00	Sediment	Particle Size	
			LCP-SD29	9/14/2011	10:54	Sediment	Particle Size	
			MAN-SD19	9/15/2011	10:16	Sediment	Particle Size	
			RMS-SD42	9/15/2011	9:07	Sediment	Particle Size	
			RMS-SD43	9/15/2011	9:08	Sediment	Particle Size	Field Duplicate of RMS-SD42
			RMS-SD45	9/14/2011	18:20	Sediment	Particle Size	
			RMS-SD46	9/15/2011	8:28	Sediment	Particle Size	
			RMS-SD47	9/15/2011	8:55	Sediment	Particle Size	
			UCP-SD34	9/14/2011	16:25	Sediment	Particle Size	

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Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/16/2011 (cont'd)	874731027557 (cont'd)	2-091611-123015-0020 (cont'd)	UCP-SD35	9/14/2011	17:05	Sediment	Particle Size	
			UCP-SD37	9/14/2011	17:43	Sediment	Particle Size	
			UCP-SD39	9/14/2011	17:25	Sediment	Particle Size	
			UCP-SD40	9/14/2011	17:45	Sediment	Particle Size	
			UCP-SD41	9/14/2011	18:10	Sediment	Particle Size	
			WES-SD22	9/14/2011	16:37	Sediment	Particle Size	
			WES-SD23	9/14/2011	16:38	Sediment	Particle Size	Field Duplicate of WES-SD22
			WES-SD24	9/14/2011	17:27	Sediment	Particle Size	
9/19/2011	868315994729	2-091911-094707-0025	RMA-WST02B	9/15/2011	11:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST03B	9/15/2011	14:30	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST04B	9/15/2011	14:51	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST05A	9/15/2011	15:22	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST05B	9/15/2011	15:22	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST06B	9/15/2011	15:45	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST12B	9/15/2011	15:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST18B	9/15/2011	17:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
		2-091911-102614-0026	RMA-WST01B	9/16/2011	10:40	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST01C	9/16/2011	10:45	Waste	TAL Inorganics (incl. Hg)	Field Duplicate of RMA-WST01B; pH > 11
			RMA-WST07B	9/16/2011	9:50	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST08A	9/16/2011	9:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST08B	9/16/2011	9:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST10A	9/16/2011	11:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST10B	9/16/2011	11:05	Waste	TAL Inorganics (incl. Hg)	MS/MSD; pH > 11
			RMA-WST11B	9/16/2011	11:20	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST19B	9/16/2011	9:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
	874731024710	2-091611-160154-0021	RMA-WST01A	9/16/2011	10:40	Waste	TAL Inorganics (incl. Hg)	MS/MSD
			RMA-WST02A	9/15/2011	9:10	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST03A	9/15/2011	10:30	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST04A	9/15/2011	10:55	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST06A	9/16/2011	15:45	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST07A	9/16/2011	9:50	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST09A	9/16/2011	9:15	Waste	TAL Inorganics (incl. Hg)	

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Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/19/2011 (cont'd)	874731024710 (cont'd)	2-091611-160154-0021 (cont'd)	RMA-WST09B	9/16/2011	9:15	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST11A	9/16/2011	11:20	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST11C	9/16/2011	11:25	Waste	TAL Inorganics (incl. Hg)	Field Duplicate of RMA-WST11A
			RMA-WST12A	9/15/2011	11:20	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST13A	9/15/2011	16:10	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST13B	9/15/2011	16:15	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST18A	9/15/2011	17:00	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST19A	9/16/2011	9:00	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST20A	9/15/2011	16:35	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST20B	9/15/2011	16:40	Waste	TAL Inorganics (incl. Hg)	
			UCP-SD36	9/15/2011	16:05	Sediment	Total Organic Carbon	
							TAL Inorganics (incl. Hg)	
			UCP-SD38	9/16/2011	17:36	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			WES-SD25	9/15/2011	16:57	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
9/20/2011	874731024775	2-092011-150526-0032	ADP-WST41A	9/19/2011	10:15	Waste	TAL Inorganics (incl. Hg)	
			ADP-WST41B	9/19/2011	10:15	Waste	TAL Inorganics (incl. Hg)	
			ADP-WST41C	9/19/2011	10:20	Waste	TAL Inorganics (incl. Hg)	Field Duplicate of ADP-WST41B
			ADP-WST42A	9/19/2011	10:35	Waste	TAL Inorganics (incl. Hg)	MS/MSD
			RMA-WST14A	9/16/2011	14:50	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST14B	9/16/2011	14:50	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST15A	9/16/2011	14:35	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST16A	9/16/2011	14:15	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST16B	9/16/2011	14:15	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST17A	9/16/2011	14:00	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST17B	9/16/2011	14:00	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST24A	9/19/2011	17:40	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST28A	9/19/2011	12:30	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST29A	9/19/2011	11:35	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST30A	9/19/2011	12:10	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST30B	9/19/2011	12:10	Waste	TAL Inorganics (incl. Hg)	MS/MSD

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/20/2011 (cont'd)	874731024775 (cont'd)	2-092011-150526-0032 (cont'd)	RMB-WST32A	9/19/2011	12:45	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST34A	9/19/2011	9:35	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST36A	9/19/2011	9:20	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST38A	9/19/2011	8:35	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST39A	9/19/2011	8:00	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST39B	9/19/2011	8:00	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST40A	9/19/2011	12:00	Waste	TAL Inorganics (incl. Hg)	
9/21/2011	874731024797	2-092111-114019-0036	MW-RIN03	9/19/2011	19:00	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
							Chlorides	
			SCA-GW02	9/19/2011	11:25	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW02F	9/19/2011	11:25	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW03	9/19/2011	17:37	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW03F	9/19/2011	17:37	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW04	9/19/2011	14:06	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW04F	9/19/2011	14:06	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW07	9/19/2011	15:51	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW07F	9/19/2011	15:51	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW08	9/20/2011	10:42	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW08F	9/20/2011	10:22	Ground Water	TAL Inorganics (incl. Hg)	
			WST-RIN05	9/19/2011	7:30	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
		2-092111-143107-0038	BG-S16A	9/21/2011	8:10	Soil	TAL Inorganics (incl. Hg)	
			FBS-WST44A	9/20/2011	9:25	Waste	TAL Inorganics (incl. Hg)	
			FBS-WST45A	9/20/2011	9:35	Waste	TAL Inorganics (incl. Hg)	
			FBS-WST46A	9/20/2011	9:50	Waste	TAL Inorganics (incl. Hg)	
			RMA-SW57	9/20/2011	13:15	Surface Water	TAL Inorganics (incl. Hg)	
			SCA-GW01	9/20/2011	16:41	Ground Water	TAL Inorganics (incl. Hg)	MS/MSD
							Chlorides	
			SCA-GW01F	9/20/2011	16:41	Ground Water	TAL Inorganics (incl. Hg)	MS/MSD
			SCA-GW05	9/21/2011	9:15	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	

Table 6
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/21/2011 (cont'd)	874731024797 (cont'd)	2-092111-143107-0038 (cont'd)	SCA-GW05F	9/21/2011	9:15	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW09	9/20/2011	12:30	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW09F	9/20/2011	12:30	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW10	9/20/2011	9:00	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW10F	9/20/2011	9:00	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW11	9/20/2011	9:05	Ground Water	TAL Inorganics (incl. Hg)	Field Duplicate of SCA-GW10
							Chlorides	
			SCA-GW11F	9/20/2011	9:05	Ground Water	TAL Inorganics (incl. Hg)	Field Duplicate of SCA-GW10F
		2-092111-160146-0042	FBS-WST43A	9/21/2011	10:00	Waste	TAL Inorganics (incl. Hg)	
			RMA-SD57	9/21/2011	10:25	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD58	9/21/2011	10:38	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD59	9/21/2011	10:55	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD60	9/21/2011	11:05	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD61	9/21/2011	11:15	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD62	9/21/2011	11:20	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD63	9/21/2011	11:30	Sediment	TAL Inorganics (incl. Hg)	Field Duplicate of RMA-SD62
9/22/2011	868315914158	2-092211-102521-0046	RMB-WST22A	9/19/2011	15:20	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST22B	9/19/2011	15:22	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST23A	9/19/2011	15:55	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST23B	9/19/2011	17:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST23C	9/19/2011	17:10	Waste	TAL Inorganics (incl. Hg)	Field Duplicate of RMB-WST23B; pH > 11
			RMB-WST28B	9/19/2011	12:30	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST29B	9/19/2011	11:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST34B	9/19/2011	9:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST37A	9/19/2011	8:10	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST37B	9/19/2011	8:10	Waste	TAL Inorganics (incl. Hg)	pH > 11
	874731026138	2-092211-101644-0045	SCA-GW06	9/21/2011	11:55	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW06F	9/21/2011	11:55	Ground Water	TAL Inorganics (incl. Hg)	

Table 7
Sample Dispatch and COC Information - NAREL
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/19/2011	874731024731	2-091711-140743-0023	RMA-WST01A	9/16/2011	10:40	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	MS/MSD
			RMA-WST02A	9/15/2011	9:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST03A	9/15/2011	10:30	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST04A	9/15/2011	10:55	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST06A	9/16/2011	15:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST07A	9/16/2011	9:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST09A	9/16/2011	9:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST09B	9/16/2011	9:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST11A	9/16/2011	11:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST12A	9/15/2011	11:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST14A	9/16/2011	14:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST14B	9/16/2011	14:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST15A	9/16/2011	14:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST16A	9/16/2011	14:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST16B	9/16/2011	14:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST17A	9/16/2011	14:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST17B	9/16/2011	14:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST18A	9/15/2011	17:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST19A	9/16/2011	9:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST20A	9/15/2011	16:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
9/20/2011	874731024764	2-092011-130824-0030	ADP-WST41A	9/19/2011	10:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			ADP-WST41B	9/19/2011	10:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			ADP-WST41C	9/19/2011	10:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of ADP-WST41B
			ADP-WST42A	9/19/2011	10:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	MS/MSD
			ADP-WST42B	9/19/2011	10:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			FBS-WST44A	9/20/2011	9:25	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			FBS-WST45A	9/20/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			FBS-WST46A	9/20/2011	9:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST24A	9/19/2011	17:40	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST28A	9/19/2011	12:30	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST29A	9/19/2011	11:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST30A	9/19/2011	12:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST30B	9/19/2011	12:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	MS/MSD
			RMB-WST32A	9/19/2011	12:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST34A	9/19/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST36A	9/19/2011	9:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST38A	9/19/2011	8:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST39A	9/19/2011	8:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST39B	9/19/2011	8:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST40A	9/19/2011	12:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	

Table 7
Sample Dispatch and COC Information - NAREL
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/21/2011	868315994730	2-092011-124541-0029	RMA-WST02B	9/15/2011	11:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST04B	9/15/2011	14:51	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST05A	9/15/2011	15:22	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST05B	9/15/2011	15:22	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST06B	9/15/2011	15:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST07B	9/16/2011	9:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST08A	9/16/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST10A	9/16/2011	11:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST11B	9/16/2011	11:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST11C	9/16/2011	11:25	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of RMA-WST11A; pH > 11
			RMA-WST19B	9/16/2011	9:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
		2-092011-133530-0031	RMB-WST22A	9/19/2011	15:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST22B	9/19/2011	15:22	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST23A	9/19/2011	15:55	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST23B	9/19/2011	17:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST23C	9/19/2011	17:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of RMB-WST23B; pH > 11
			RMB-WST28B	9/19/2011	12:30	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST29B	9/19/2011	11:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST34B	9/19/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST37A	9/19/2011	8:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST37B	9/19/2011	8:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
	868315994740	2-092111-103224-0034	RMA-WST01B	9/16/2011	10:40	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST01C	9/16/2011	10:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of RMA-WST01B; pH > 11
			RMA-WST03B	9/15/2011	14:30	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST10B	9/16/2011	11:05	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	MS/MSD; pH > 11
			RMA-WST12B	9/15/2011	15:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
	874731024801	2-092111-130009-0037	ADP-SD49	9/14/2011	12:07	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S01	9/12/2011	10:00	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S07	9/20/2011	16:50	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S08	9/20/2011	17:00	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S09	9/20/2011	17:10	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S10	9/20/2011	17:15	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S11	9/20/2011	17:20	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S12	9/20/2011	17:25	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S13	9/20/2011	17:30	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	

Table 7
Sample Dispatch and COC Information - NAREL
St. Croix Alumina (Renaissance Park) Site - September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/21/2011 (cont'd)	874731024801 (cont'd)	2-092111-130009-0037 (cont'd)	BG-S14	9/20/2011	17:40	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S15	9/20/2011	17:45	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S16A	9/21/2011	8:10	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			LCP-SD33	9/14/2011	12:05	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST13A	9/15/2011	16:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST13B	9/15/2011	16:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST20B	9/15/2011	16:40	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST-R01A	9/21/2011	9:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST-R02A	9/21/2011	9:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMS-SD45	9/14/2011	18:20	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			UCP-SD35	9/14/2011	17:05	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			UCP-SD37	9/14/2011	17:43	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			UCP-SD39	9/14/2011	17:25	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
9/22/2011	865869642224	2-092211-112105-0047	RMA-SW57	9/20/2011	13:15	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			RMS-SW45	9/14/2011	18:17	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW01	9/20/2011	16:41	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	MS/MSD
			SW-RMA-WST12	9/15/2011	15:00	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			UCP-SW35	9/14/2011	17:00	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			UCP-SW39	9/14/2011	17:20	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
		2-092211-115537-0048	SCA-GW05	9/21/2011	9:15	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW06	9/21/2011	11:55	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	sample pH > 11; preseerved to < 11
			SCA-GW08	9/20/2011	10:42	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW10	9/20/2011	9:00	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			WST-RIN01	9/15/2011	18:25	QA/QC	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	Rinsate Blank
		2-092211-120450-0049	SCA-GW02	9/19/2011	11:25	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW07	9/19/2011	15:51	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
	868315914147	2-092211-085743-0044	RMA-WST06B(2)	9/15/2011	15:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Jar 2 of 2; pH > 11
			RMA-WST08B	9/16/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST18B	9/15/2011	17:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
	874731026116	2-092211-083246-0043	FBS-WST43A	9/21/2011	10:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD57	9/21/2011	10:25	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD58	9/21/2011	10:38	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD59	9/21/2011	10:55	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD60	9/21/2011	11:05	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD61	9/21/2011	11:15	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD62	9/21/2011	11:20	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD63	9/21/2011	11:30	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of RMA-SD62

Table 8
Stratigraphy and Aquifer Determinations from Monitoring Well Logs
St. Croix Alumina (Renaissance Park) Site

Well Name	Date Installed	Latitude	Longitude	TOC Elev (ft MSL)	Grd Elev (ft MSL)	Screen Interval (ft bgs)		Log Description of Screened Interval	Aquifer
						Top	Bottom		
G-1	1982	17.696331	-64.783892	90.42		90	105	MARL (carbonate clay/silt/sand w/limestone lenses, masses). LIMESTONE (hard/crystalline to weathered; fractures filled with sand/silt/clay); yellow to tan; moderately permeable (95')	Kingshill
G-2 *	1982	17.708152	-64.777952	21.06		20	35	interbedded LIMESTONE (fractured to very hard), coarse CARBONATE SAND/GRAVEL, and CLAY w/silt/sand/limestone chunks; white to brown, some red staining; very low permeability to permeable	Kingshill
G-3	1982	17.717438	-64.770285	81.77		85	100	interbedded CARBONATE SAND, CLAY, and CALCARENITE; white to yellow; loose to cohesive; low to moderate permeability	Kingshill
G-4	1982	17.711120	-64.768691	26.47		26	36	CARBONATE SAND/GRAVEL w/limestone lenses, minor silt/clay; lt-gray to tan; loose, permeable; void or very loose at 30'	Kingshill
G-5	1982	17.708269	-64.767664	11.25		12	20	CARBONATE SAND/GRAVEL w/minor silt/clay; thin calcarenite lens at 12'; tan, loose, permeable	Kingshill
G-6 *	1982	17.704928	-64.761185	8.81		22	30	CARBONATE SAND/GRAVEL, minor clay, shell/coral fragments; white to beige; loose, permeable (Note: lagoon clay 8'-22')	Lagoonal Clay/ Kingshill
G-7	1982	17.705982	-64.781723	25.45		25	35 **	interbedded CARBONATE SAND, CLAY, and weathered LIMESTONE; white to orange; loose to cohesive; low permeability to permeable	Kingshill
G-8	1982	17.705335	-64.783274	23.83		27	45	interbedded CLAY, CARBONATE SAND/GRAVEL, and LIMESTONE; white to orange; low to high porosity and permeability	Kingshill
G-9	1982	17.715494	-64.775525	105.59	104.02	105	125	CARBONATE SILT/SAND w/LIMESTONE chunks/lenses; occasional 1-inch clay seams; white to pale-yellow; loose to moderately cohesive; moderately to very permeable	Kingshill
G-10 *	1982	17.698325	-64.778873	10.81		15.5	23.5	CLAY w/abundant SILT, SAND, and weathered LIMESTONE chunks; brown to beige-gray; low permeability	Lagoonal Clay
G-11	1982	17.709319	-64.771478	37.89	34.61	37	55	CARBONATE SAND/GRAVEL/SILT/CLAY w/LIMESTONE chunks (porous); white to pale-gray; low permeability to loose, permeable	Kingshill
G-12 *	1982	17.708723	-64.782722	47.76		54	64	CARBONATE SAND/GRAVEL w/lge LIMESTONE chunks/lenses (weathered porous calcarenite); pink to yellow-beige; loose to very loose, permeable	Kingshill
GM-13	Jun-95	17.708611	-64.777741	23.28		5	15	SILT/CLAY, little to some fine sand, trace to little limestone fragments; brown; cohesive to slightly cohesive	Lagoonal Clay
GM-13D	Jun-95	17.708374	-64.777854	23.12	20.92	50	90 **	LIMESTONE (gravel-size fragments w/some silt); lt-gray to white-gray. CLAY/SILT, lagoonal [sic]; lt-bluish-gray (76')	Kingshill
GM-14	Jun-95	17.706175	-64.771818	10.49	7.89	8	33	SILT/CLAY, trace to little vf sand and gravel; blue-gray to lt-green-gray to brown w/black streaks; soft and cohesive to dense and moderately cohesive. LIMESTONE, weathered, silt to gravel-size; chalky white (31.5')	Lagoonal Clay/ Kingshill

* These wells are reported to have been destroyed.
** As-built depth; these wells are currently silted/blocked.

Table 8
Stratigraphy and Aquifer Determinations from Monitoring Well Logs
St. Croix Alumina (Renaissance Park) Site

Well Name	Date Installed	Latitude	Longitude	TOC Elev (ft MSL)	Grd Elev (ft MSL)	Screen Interval (ft bgs)		Log Description of Screened Interval	Aquifer
						Top	Bottom		
GM-18	Jun-95	17.699516	-64.772186	15.67		5	20	SAND and weathered LIMESTONE gravel; dk-gray. CLAY/SILT, little to some vf sand; olive-green to black (15')	Fill/Lagoonal Clay
GM-19	Jun-95	17.697751	-64.778811	11.31		4	19	CLAY/SILT, some vf-m sand, trace shell frags and weathered Limestone gravel; brown to tan, pockets of gray; soft, cohesive	Lagoonal Clay
GM-22	Jun-95	17.705347	-64.776753	35.66	32.61	12	27	SILT/f SAND/CLAY (Red Mud). SILT, some vf sand, little clay; blue-gray; very soft (22')	Fill/Lagoonal Clay
VW11	Mar-95	17.715031	-64.770194	75.74	72.99	69	79	CLAY, some Limestone clasts; brown; soft. LIMESTONE, hard (75')	Kingshill
VW16	Mar-96	17.709322	-64.770007	32.09	30.07	26.5	36.5	LIMESTONE, hard to moderate	Kingshill
VW22	Jun-96	17.711577	-64.774475	57.39	54.39	28.5	38.5	LIMESTONE, moderate. CLAY, coarse SAND, trace gravel; orange-brown to orange (30')	Kingshill
VW25	Dec-96	17.708444	-64.776234	38.04	35.74	31.5	41.5	LIMESTONE, soft; tan	Kingshill
VW27	Mar-97	17.709684	-64.772584	38	36.15	30	40	LIMESTONE, moderate; light tan	Kingshill
VW31	Aug-02	17.709888	-64.776032	38.03	35.33	30	40	weathered LIMESTONE, hard	Kingshill
VW32	Aug-02	17.710534	-64.775252	38.05	35.05	31.7	41.7	weathered LIMESTONE, moderate; blue/gray	Kingshill
VW33	Feb-03	17.710236	-64.782333	84.11	81.65	74	84	CALICHE w/CLAY; pale yellow	Kingshill
VW34	Feb-03	17.709190	-64.776859	22.24	19.98	17	27	weathered LIMESTONE. LIMESTONE w/MARL, very hard (25')	Kingshill
VW35	Feb-03	17.711453	-64.774007	59.79	57.61	53	63	LIMESTONE and CLAY. MARL LIMESTONE, hard (57')	Kingshill
VW36	Feb-03	17.708852	-64.782771	53.53	50.73	48	58	LIMESTONE and CLAY, coarse LIMESTONE chips	Kingshill
VW37	Feb-03	17.708130	-64.782588	51.86	50.24	48	58	CLAY; red-brown (48'). CALICHE w/CLAY (50')	Kingshill
MMX	Mar-90	17.712460	-64.774053	65.15	63.39	60	100	CLAY w/LIMESTONE cobbles; dense. transition zone (78'), mass fractures (80'). LIMESTONE with fractures;dense (85')	Kingshill

* These wells are reported to have been destroyed.
** As-built depth; these wells are currently silted/blocked.

Table 9
Historical Ground Water Results for Metals and Water Quality Parameters
St. Croix Alumina (Renaissance Park) Site

		Well ID	G-1		G-2		G-3		G-4		G-5		G-6		G-7	
Analyte	**MCL**	**SMCL**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**
pH (Standard Units)	none	6.5-8.5	6.8	7.5	9.49	9.7	7.72	9.3	6.5	8.82	6.7	7.9	6.5	7.5	7	8.3
Aluminum	none	200	no data		no data		ND	1,780	14,000		no data		no data		424	679
Arsenic	10	none	ND	ND	ND	196	ND	5.6	ND	5.9	ND	ND	ND	2	ND	3.7
Chromium	100	none	ND		ND	ND	ND	11.2	10	100	10		ND	330	ND	6.5
Iron	none	300	50		10		40	120	20	1,000	20		200	8,650	20	
Manganese	none	50	20	133	10	31	ND	36	ND	608	70	305	423	850	11	153
Selenium	50	none	no data		ND	ND	ND	3.8	ND		no data		ND	8	ND	3.6
Vanadium	none	none	ND	10	ND	10	ND	26.1	27.6	27.6	ND	ND	ND	ND	ND	10.2
Mercury	2	none	ND		ND	ND	ND	ND	ND		ND		ND	ND	ND	ND
Fluoride	4,000	2,000	86	820	8,400	18,000	400	1,700	120	300	270	420	260	460	160	1,800
TDS (mg/L)	none	500	810		3,690		1,700		1,840		3,030		28,400		3,000	
Chloride (mg/L)	none	250	111	149	12	1,365	157	437	318	890	408	1,350	8,530	18,900	696	960

All results are in micrograms per liter (ug/L) unless otherwise noted.
MCL = Maximum Contaminant Level
SMCL = Secondary MCL
TDS = Total Dissolved Solids
mg/L = milligrams per liter
MCL and SMCL exceedances are highlighted.

Table 9
Historical Ground Water Results for Metals and Water Quality Parameters
St. Croix Alumina (Renaissance Park) Site

		Well ID	G-8		G-9		G-10		G-11		G-12		GM-13	
Analyte	**MCL**	**SMCL**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**
pH (Standard Units)	none	6.5-8.5	7.1	7.83	7.13	7.78	6.7	7.19	1.99	10.65	6.9	8.2	7.53	12.3
Aluminum	none	200	no data		ND	61	no data		ND	420	no data		600	479,000
Arsenic	10	none	ND	ND	ND	2.1	ND	ND	ND	30	ND		ND	2,080
Chromium	100	none	ND	10	ND	2.7	ND	490	ND	160	ND		ND	307
Iron	none	300	ND		ND	40	340	400	ND	50	10		80	
Manganese	none	50	50	324	ND	30	410	710	ND	185	ND		ND	
Selenium	50	none	ND	ND	ND	5	ND		ND	ND	no data		ND	480
Vanadium	none	none	ND	10	ND	1.7	ND	90	ND	1.5	ND	10	ND	18,500
Mercury	2	none	ND	ND	ND	ND	ND		ND	ND	ND		ND	ND
Fluoride	4,000	2,000	320	9,000	90	190	300	570	450	3,500	290	1,600	64,000	
TDS (mg/L)	none	500	3,600		800	2,650	45,000		8,400	22,000	2,200		42,000	
Chloride (mg/L)	none	250	341	1,260	240	510	10,423	26,530	675	15,520	400	590	6,480	20,000

All results are in micrograms per liter (ug/L) unless otherwise noted.
MCL = Maximum Contaminant Level
SMCL = Secondary MCL
TDS = Total Dissolved Solids
mg/L = milligrams per liter
MCL and SMCL exceedances are highlighted.

Table 9
Historical Ground Water Results for Metals and Water Quality Parameters
St. Croix Alumina (Renaissance Park) Site

		Well ID	GM-13D		GM-14		GM-18		GM-19		GM-22		VW11	
Analyte	**MCL**	**SMCL**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**
pH (Standard Units)	none	6.5-8.5	9.01	11.9	5.11	8.69	8.98	9.82	7.2	7.4	12.3	12.81	7.24	8.58
Aluminum	none	200	6,700	100,000	200	17,200	ND	43,900	ND	58,700	640,000	771,000	no data	
Arsenic	10	none	190	885	ND	5.7	300	1,040	ND	9.6	2,030	5,100	no data	
Chromium	100	none	ND	6.9	ND	20.8	ND	48.2	ND	76.8	150	730	no data	
Iron	none	300	ND		ND		ND	ND	ND	ND	ND	ND	no data	
Manganese	none	50	ND		490		ND	ND	6,000	6,000	ND	ND	no data	
Selenium	50	none	ND	219	ND	50	ND	32	ND	ND	456	1,000	no data	
Vanadium	none	none	2,700	8,260	ND	102	60	341	ND	356	14,900	25,000	no data	
Mercury	2	none	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.1	no data	
Fluoride	4,000	2,000	9,800	37,000	410	410	52,000	168,000	ND	1,300	100,000	280,000	no data	
TDS (mg/L)	none	500	7,130	8,100	no data		15,000	16,000	34,600	40,000	27,000	28,000	no data	
Chloride (mg/L)	none	250	3,600	6,780	7,480	7,480	4,800	8,540	19,000	23,000	3,500	6,020	no data	

All results are in micrograms per liter (ug/L) unless otherwise noted.
MCL = Maximum Contaminant Level
SMCL = Secondary MCL
TDS = Total Dissolved Solids
mg/L = milligrams per liter
MCL and SMCL exceedances are highlighted.

Table 9
Historical Ground Water Results for Metals and Water Quality Parameters
St. Croix Alumina (Renaissance Park) Site

		Well ID	VW16		VW25		VW27		VW36		VW37		MMX	
Analyte	**MCL**	**SMCL**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**	**Min.**	**Max.**
pH (Standard Units)	none	6.5-8.5	5.43	8.46	5.43	8.97	5.46	10.02	6.97	7.24	5.37	8.92	5.74	8.11
Aluminum	none	200	no data		no data		no data		no data		no data		no data	
Arsenic	10	none	no data		no data		no data		no data		no data		no data	
Chromium	100	none	no data		no data		no data		no data		no data		no data	
Iron	none	300	no data		no data		no data		no data		no data		no data	
Manganese	none	50	no data		no data		no data		no data		no data		no data	
Selenium	50	none	no data		no data		no data		no data		no data		no data	
Vanadium	none	none	no data		no data		no data		no data		no data		no data	
Mercury	2	none	no data		no data		no data		no data		no data		no data	
Fluoride	4,000	2,000	no data		no data		no data		no data		no data		no data	
TDS (mg/L)	none	500	no data		no data		no data		no data		no data		no data	
Chloride (mg/L)	none	250	no data		no data		no data		no data		no data		no data	

All results are in micrograms per liter (ug/L) unless otherwise noted.
MCL = Maximum Contaminant Level
SMCL = Secondary MCL
TDS = Total Dissolved Solids
mg/L = milligrams per liter
MCL and SMCL exceedances are highlighted.

Table 10
Background Soil Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	BG-S01	BG-S05		BG-S16
Field Sample ID:	BG-S01	BG-S05	BG-S06	BG-S16A
CLP ID:	B56Z1	B56Z3	B56Z4	B4A20
Date:	9/12/2011	9/12/2011	9/12/2011	9/21/2011
Depth (inches):	0-6	0-6	0-6	42
Comments:	-	-	Dup of BG-S05	-
SVOCs				
1,1'-Biphenyl	230 UJ	240 U	240 U	210 U
1,2,4,5-Tetrachlorobenzene	230 U	240 U	240 U	210 U
2,2'-Oxybis(1-chloropropane)	230 U	240 U	240 U	210 U
2,3,4,6-Tetrachlorophenol	230 U	240 U	240 U	210 U
2,4,5-Trichlorophenol	230 U	240 U	240 U	210 U
2,4,6-Trichlorophenol	230 U	240 U	240 U	210 U
2,4-Dichlorophenol	230 U	240 U	240 U	210 U
2,4-Dimethylphenol	230 U	240 U	240 U	210 U
2,4-Dinitrophenol	440 U	460 U	460 U	410 U
2,4-Dinitrotoluene	230 U	240 U	240 U	210 U
2,6-Dinitrotoluene	230 U	240 U	240 U	210 U
2-Chloronaphthalene	230 U	240 U	240 U	210 U
2-Chlorophenol	230 U	240 U	240 U	210 U
2-Methylnaphthalene	230 U	240 U	240 U	210 U
2-Methylphenol	230 U	240 U	240 U	210 U
2-Nitroaniline	440 U	460 U	460 U	410 U
2-Nitrophenol	230 U	240 U	240 U	210 U
3,3'-Dichlorobenzidine	230 U	240 U	240 U	210 U
3-Nitroaniline	440 U	460 U	460 U	410 U
4,6-Dinitro-2-methylphenol	440 U	460 U	460 U	410 U
4-Bromophenyl-phenylether	230 UJ	240 U	240 U	210 U
4-Chloro-3-methylphenol	230 U	240 U	240 U	210 U
4-Chloroaniline	230 U	240 U	240 U	210 U
4-Chlorophenyl-phenylether	230 UJ	240 U	240 U	210 U
4-Methylphenol	230 U	240 U	240 U	210 U
4-Nitroaniline	440 U	460 U	460 U	410 U
4-Nitrophenol	440 U	460 U	460 U	410 U
Acenaphthene	230 U	240 U	240 U	210 U
Acenaphthylene	230 U	240 U	240 U	210 U
Acetophenone	230 U	240 U	240 U	210 U
Anthracene	230 U	240 U	240 U	210 U
Atrazine	230 U	240 U	240 U	210 U
Benzaldehyde	230 U	240 U	*17 J*	210 U
Benzo(a)anthracene	230 UJ	240 U	240 U	210 U
Benzo(a)pyrene	230 UJ	240 U	240 U	210 U
Benzo(b)fluoranthene	230 UJ	240 U	240 U	210 U
Benzo(g,h,i)perylene	230 UJ	240 U	240 U	210 U
Benzo(k)fluoranthene	230 UJ	240 U	240 U	210 U
Bis(2-chloroethoxy)methane	230 U	240 U	240 U	210 U
Bis(2-chloroethyl)ether	230 U	240 U	240 U	210 U
Bis(2-ethylhexyl)phthalate	230 UJ	240 U	240 U	210 U
Butylbenzylphthalate	230 UJ	240 U	240 U	210 U
Caprolactam	230 UJ	240 U	240 U	210 U
Carbazole	230 UJ	240 U	240 U	210 U
Chrysene	230 UJ	240 U	240 U	210 U

Table 10
Background Soil Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	BG-S01	BG-S05		BG-S16
Field Sample ID:	BG-S01	BG-S05	BG-S06	BG-S16A
CLP ID:	B56Z1	B56Z3	B56Z4	B4A20
Date:	9/12/2011	9/12/2011	9/12/2011	9/21/2011
Depth (inches):	0-6	0-6	0-6	42
Comments:	-	-	Dup of BG-S05	-
Dibenzo(a,h)anthracene	230 UJ	240 U	240 U	210 U
Dibenzofuran	230 UJ	240 U	240 U	210 U
Diethylphthalate	230 UJ	240 U	240 U	210 U
Dimethylphthalate	230 UJ	240 U	*69 J*	210 U
Di-n-butylphthalate	230 UJ	240 U	240 U	210 U
Di-n-octylphthalate	230 UJ	240 U	240 U	210 U
Fluoranthene	230 UJ	240 U	240 U	210 U
Fluorene	230 UJ	240 U	240 U	210 U
Hexachlorobenzene	230 U	240 U	240 U	210 U
Hexachlorobutadiene	230 U	240 U	240 U	210 U
Hexachlorocyclopentadiene	230 U	240 U	240 U	210 U
Hexachloroethane	230 U	240 U	240 U	210 U
Indeno(1,2,3-cd)pyrene	230 UJ	240 U	240 U	210 U
Isophorone	230 U	240 U	240 U	210 U
Naphthalene	230 U	240 U	240 U	210 U
Nitrobenzene	230 U	240 U	240 U	210 U
N-Nitroso-di-n-propylamine	230 U	240 U	240 U	210 U
N-Nitrosodiphenylamine	230 U	240 U	240 U	210 U
Pentachlorophenol	440 U	460 U	460 U	410 U
Phenanthrene	230 U	240 U	240 U	210 U
Phenol	230 U	*41 J*	*38 J*	210 U
Pyrene	230 UJ	240 U	240 U	210 U
Aroclors				
Aroclor-1016	44 U	46 U	46 U	41 U
Aroclor-1221	44 U	46 U	46 U	41 U
Aroclor-1232	44 U	46 U	46 U	41 U
Aroclor-1242	44 U	46 U	46 U	41 U
Aroclor-1248	44 U	46 U	46 U	41 U
Aroclor-1254	44 U	46 U	46 U	41 U
Aroclor-1260	44 U	46 U	46 U	41 U
Aroclor-1262	44 U	46 U	46 U	41 U
Aroclor-1268	44 U	46 U	46 U	41 U

All results are in micrograms per kilogram (µg/kg).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL).
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Detections below the adjusted CRQL are in *Italic* .

Table 11
Waste Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	RMA-WST01			RMA-WST06		RMA-WST12		RMB-WST36	ADP-WST41		ADP-WST42	
Field Sample ID:	RMA-WST01A	RMA-WST01B	RMA-WST01C	RMA-WST06A	RMA-WST06B	RMA-WST12A	RMA-WST12B	RMB-WST36A	ADP-WST41B	ADP-WST41C	ADP-WST42A	ADP-WST42B
CLP Sample ID:	B5723	B5724	B5725	B5726	B5727	B5728	B5729	B4A13	B4A16	B4A17	B4A15	B4A25
Date:	9/16/2011	9/16/2011	9/16/2011	9/16/2011	9/15/2011	9/15/2011	9/15/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011
Depth (inches):	0-3	48	48	0-3	36-48	0-3	36-48	0-3	36-48	36-48	0-3	36-48
Comments:	-	-	Dup of RMA-WST01B	-	-	-	-	-	-	Dup of ADP-WST41B	-	-
SVOCs												
1,1'-Biphenyl	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
1,2,4,5-Tetrachlorobenzene	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,2'-Oxybis(1-chloropropane)	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,3,4,6-Tetrachlorophenol	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,4,5-Trichlorophenol	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,4,6-Trichlorophenol	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,4-Dichlorophenol	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,4-Dimethylphenol	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,4-Dinitrophenol	370 UJ	440 UJ	440 U	400 UJ	410 UJ	470 UJ	500 U	500 U	910 U	940 UJ	460 UJ	670 U
2,4-Dinitrotoluene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2,6-Dinitrotoluene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2-Chloronaphthalene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2-Chlorophenol	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2-Methylnaphthalene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2-Methylphenol	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
2-Nitroaniline	370 UJ	440 UJ	440 U	400 UJ	410 UJ	470 UJ	500 U	500 U	910 U	940 UJ	460 UJ	670 U
2-Nitrophenol	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
3,3'-Dichlorobenzidine	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
3-Nitroaniline	370 UJ	440 UJ	440 U	400 UJ	410 UJ	470 UJ	500 U	500 U	910 U	940 UJ	460 UJ	670 U
4,6-Dinitro-2-methylphenol	370 U	440 U	440 U	400 UJ	410 UJ	470 U	500 U	500 UJ	910 U	940 U	460 UJ	670 U
4-Bromophenyl-phenylether	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 U	480 U	240 U	350 U
4-Chloro-3-methylphenol	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
4-Chloroaniline	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
4-Chlorophenyl-phenylether	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 U	480 U	240 U	350 U
4-Methylphenol	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
4-Nitroaniline	370 UJ	440 UJ	440 U	400 UJ	410 UJ	470 UJ	500 U	500 U	910 U	940 UJ	460 UJ	670 U
4-Nitrophenol	370 UJ	440 UJ	440 U	400 UJ	410 UJ	470 UJ	500 U	500 U	910 U	940 UJ	460 UJ	670 U
Acenaphthene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Acenaphthylene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Acetophenone	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Anthracene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Atrazine	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Benzaldehyde	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Benzo(a)anthracene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Benzo(a)pyrene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Benzo(b)fluoranthene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Benzo(g,h,i)perylene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Benzo(k)fluoranthene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Bis(2-chloroethoxy)methane	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Bis(2-chloroethyl)ether	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Bis(2-ethylhexyl)phthalate	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Butylbenzylphthalate	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Caprolactam	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Carbazole	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 U	480 U	240 U	350 U
Chrysene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Dibenzo(a,h)anthracene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ

Table 11
Waste Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	RMA-WST01			RMA-WST06		RMA-WST12		RMB-WST36	ADP-WST41		ADP-WST42	
Field Sample ID:	RMA-WST01A	RMA-WST01B	RMA-WST01C	RMA-WST06A	RMA-WST06B	RMA-WST12A	RMA-WST12B	RMB-WST36A	ADP-WST41B	ADP-WST41C	ADP-WST42A	ADP-WST42B
CLP Sample ID:	B5723	B5724	B5725	B5726	B5727	B5728	B5729	B4A13	B4A16	B4A17	B4A15	B4A25
Date:	9/16/2011	9/16/2011	9/16/2011	9/16/2011	9/15/2011	9/15/2011	9/15/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011
Depth (inches):	0-3	48	48	0-3	36-48	0-3	36-48	0-3	36-48	36-48	0-3	36-48
Comments:	-	-	Dup of RMA-WST01B	-	-	-	-	-	-	Dup of ADP-WST41B	-	-
Dibenzofuran	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 U	480 U	240 U	350 U
Diethylphthalate	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Dimethylphthalate	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Di-n-butylphthalate	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Di-n-octylphthalate	190 U	230 U	230 U	200 UJ	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Fluoranthene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Fluorene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 U	480 U	240 U	350 U
Hexachlorobenzene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Hexachlorobutadiene	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Hexachlorocyclopentadiene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Hexachloroethane	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Indeno(1,2,3-cd)pyrene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Isophorone	190 U	230 U	230 U	200 U	210 UJ	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Naphthalene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Nitrobenzene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
N-Nitroso-di-n-propylamine	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
N-Nitrosodiphenylamine	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Pentachlorophenol	370 U	440 U	440 U	400 U	410 UJ	470 U	500 U	500 U	910 U	940 U	460 U	670 U
Phenanthrene	190 U	230 U	230 U	200 U	210 U	240 U	260 U	260 U	470 U	480 U	240 U	350 U
Phenol	190 U	230 U	230 U	200 U	210 U	*30 J*	260 U	*39 J*	470 U	480 U	240 U	350 U
Pyrene	190 U	230 U	230 U	200 U	210 U	240 U	260 UJ	260 U	470 UJ	480 UJ	240 UJ	350 UJ
Aroclors												
Aroclor-1016	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1221	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1232	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1242	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1248	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1254	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1260	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1262	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U
Aroclor-1268	37 U	44 U	44 U	40 U	42 U	47 U	50 U	50 U	92 U	97 U	46 U	67 U

All results are in micrograms per kilogram (µg/kg).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL).
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Detections below the adjusted CRQL are in*Italic* .

Table 12
Surface Water Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ACC-SW01	ACC-SW07	MAN-SW16	LCP-SW31	UCP-SW36	RMS-SW45	ADP-SW50	BG-SW53	BG-SW55	RMA-SW57
Field Sample ID:	ACC-SW01	ACC-SW07	MAN-SW16	LCP-SW31	UCP-SW36	RMS-SW45	ADP-SW50	BG-SW53	BG-SW55	RMA-SW57
CLP Sample ID:	B98S3	B98S9	B98N2	B98P7	B5721	B98R1	B98R6	B98R9	B98S1	B4A18
Date:	9/13/2011	9/13/2011	9/12/2011	9/14/2011	9/15/2011	9/14/2011	9/14/2011	9/13/2011	9/13/2011	9/20/2011
Comments:	-	-	-	-	-	-	-	-	-	-
SVOCs										
1,1'-Biphenyl	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
1,2,4,5-Tetrachlorobenzene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2,2'-Oxybis(1-chloropropane)	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
2,3,4,6-Tetrachlorophenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2,4,5-Trichlorophenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2,4,6-Trichlorophenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2,4-Dichlorophenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2,4-Dimethylphenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2,4-Dinitrophenol	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ
2,4-Dinitrotoluene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
2,6-Dinitrotoluene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
2-Chloronaphthalene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2-Chlorophenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
2-Methylnaphthalene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2-Methylphenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
2-Nitroaniline	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ
2-Nitrophenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
3,3'-Dichlorobenzidine	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 UJ	5.2 UJ
3-Nitroaniline	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ
4,6-Dinitro-2-methylphenol	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
4-Bromophenyl-phenylether	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
4-Chloro-3-methylphenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
4-Chloroaniline	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 UJ	5.2 UJ
4-Chlorophenyl-phenylether	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
4-Methylphenol	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
4-Nitroaniline	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ
4-Nitrophenol	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Acenaphthene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Acenaphthylene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Acetophenone	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Anthracene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Atrazine	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Benzaldehyde	5.1 UJ	5.1 UJ	5.2 UJ	5.1 UJ	5.2 UJ	5.2 UJ	5.2 UJ	5.1 UJ	5.2 UJ	5.2 UJ
Benzo(a)anthracene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Benzo(a)pyrene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Benzo(b)fluoranthene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Benzo(g,h,i)perylene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Benzo(k)fluoranthene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Bis(2-chloroethoxy)methane	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Bis(2-chloroethyl)ether	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Bis(2-ethylhexyl)phthalate	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Butylbenzylphthalate	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U

Table 12
Surface Water Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ACC-SW01	ACC-SW07	MAN-SW16	LCP-SW31	UCP-SW36	RMS-SW45	ADP-SW50	BG-SW53	BG-SW55	RMA-SW57
Field Sample ID:	**ACC-SW01**	**ACC-SW07**	**MAN-SW16**	**LCP-SW31**	**UCP-SW36**	**RMS-SW45**	**ADP-SW50**	**BG-SW53**	**BG-SW55**	**RMA-SW57**
CLP Sample ID:	**B98S3**	**B98S9**	**B98N2**	**B98P7**	**B5721**	**B98R1**	**B98R6**	**B98R9**	**B98S1**	**B4A18**
Date:	**9/13/2011**	**9/13/2011**	**9/12/2011**	**9/14/2011**	**9/15/2011**	**9/14/2011**	**9/14/2011**	**9/13/2011**	**9/13/2011**	**9/20/2011**
Comments:	-	-	-	-	-	-	-	-	-	-
Caprolactam	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Carbazole	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Chrysene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Dibenzo(a,h)anthracene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Dibenzofuran	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Diethylphthalate	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	*1.3 J*	*1.3 J*	5.1 U	5.2 U	5.2 U
Dimethylphthalate	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	**11 J**	**15 J**	5.1 U	5.2 U	**18**
Di-n-butylphthalate	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Di-n-octylphthalate	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Fluoranthene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Fluorene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Hexachlorobenzene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Hexachlorobutadiene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Hexachlorocyclopentadiene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 UJ	5.2 UJ
Hexachloroethane	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Indeno(1,2,3-cd)pyrene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Isophorone	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Naphthalene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 U
Nitrobenzene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
N-Nitroso-di-n-propylamine	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
N-Nitrosodiphenylamine	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Pentachlorophenol	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Phenanthrene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Phenol	5.1 UJ	5.1 UJ	5.2 UJ	5.1 UJ	5.2 UJ	5.2 UJ	5.2 UJ	5.1 UJ	5.2 UJ	5.2 UJ
Pyrene	5.1 U	5.1 U	5.2 U	5.1 U	5.2 U	5.2 UJ	5.2 UJ	5.1 U	5.2 U	5.2 UJ
Aroclors										
Aroclor-1016	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1221	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1232	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1242	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1248	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1254	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1260	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1262	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U
Aroclor-1268	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 U

All results are in micrograms per liter (µg/L).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL).
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Detections below the adjusted CRQL are in *Italic* .
Detections above the adjusted CRQL are in **BOLD**.

Table 13
Sediment Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ACC-SW01	ACC-SW07	MAN-SW16	LCP-SW31	UCP-SW35	UCP-SW36	RMS-SW45	ADP-SW50	BG-SW53	BG-SW55	RMA-SD57	RMA-SD59	RMA-SD62	
Field Sample ID:	**ACC-SD01**	**ACC-SD07**	**MAN-SD16**	**LCP-SD31**	**UCP-SD35**	**UCP-SD36**	**RMS-SD45**	**ADP-SD50**	**BG-SD53**	**BG-SD55**	**RMA-SD57**	**RMA-SD59**	**RMA-SD62**	**RMA-SD63**
CLP Sample ID:	**B56Z5**	**B56Z8**	**B56Z9**	**B5718**	**B5719**	**B5722**	**B5720**	**B5715**	**B5716**	**B5717**	**B4A21**	**B4A22**	**B4A23**	**B4A24**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Date:	**9/13/2011**	**9/13/2011**	**9/12/2011**	**9/14/2011**	**9/14/2011**	**9/15/2011**	**9/14/2011**	**9/14/2011**	**9/13/2011**	**9/13/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**
Comments:	-	-	-	-	-	-	-	-	-	-	-	-	-	**Dup of RMA-SD62**
SVOCs														
1,1'-Biphenyl	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
1,2,4,5-Tetrachlorobenzene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,2'-Oxybis(1-chloropropane)	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,3,4,6-Tetrachlorophenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,4,5-Trichlorophenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,4,6-Trichlorophenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,4-Dichlorophenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,4-Dimethylphenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,4-Dinitrophenol	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 UJ	470 U	500 U	420 U	470 U	400 U	410 U
2,4-Dinitrotoluene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2,6-Dinitrotoluene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2-Chloronaphthalene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2-Chlorophenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2-Methylnaphthalene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2-Methylphenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
2-Nitroaniline	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 UJ	470 U	500 U	420 U	470 U	400 U	410 U
2-Nitrophenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
3,3'-Dichlorobenzidine	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
3-Nitroaniline	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 UJ	470 U	500 U	420 U	470 U	400 U	410 U
4,6-Dinitro-2-methylphenol	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 U	470 U	500 U	420 U	470 U	400 U	410 U
4-Bromophenyl-phenylether	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
4-Chloro-3-methylphenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
4-Chloroaniline	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
4-Chlorophenyl-phenylether	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
4-Methylphenol	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
4-Nitroaniline	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 UJ	470 U	500 U	420 U	470 U	400 U	410 U
4-Nitrophenol	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 UJ	470 U	500 U	420 U	470 U	400 U	410 U
Acenaphthene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Acenaphthylene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Acetophenone	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Anthracene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Atrazine	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Benzaldehyde	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Benzo(a)anthracene	220 U	**360**	260 UJ	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Benzo(a)pyrene	220 U	*130 J*	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Benzo(b)fluoranthene	220 U	**310**	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Benzo(g,h,i)perylene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Benzo(k)fluoranthene	220 U	*91 J*	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Bis(2-chloroethoxy)methane	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Bis(2-chloroethyl)ether	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Bis(2-ethylhexyl)phthalate	220 U	*180 J*	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Butylbenzylphthalate	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Caprolactam	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Carbazole	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Chrysene	220 U	**320**	260 UJ	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Dibenzo(a,h)anthracene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Dibenzofuran	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Diethylphthalate	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Dimethylphthalate	220 U	*80 J*	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U

Table 13
Sediment Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ACC-SW01	ACC-SW07	MAN-SW16	LCP-SW31	UCP-SW35	UCP-SW36	RMS-SW45	ADP-SW50	BG-SW53	BG-SW55	RMA-SD57	RMA-SD59	RMA-SD62	
Field Sample ID:	ACC-SD01	ACC-SD07	MAN-SD16	LCP-SD31	UCP-SD35	UCP-SD36	RMS-SD45	ADP-SD50	BG-SD53	BG-SD55	RMA-SD57	RMA-SD59	RMA-SD62	RMA-SD63
CLP Sample ID:	B56Z5	B56Z8	B56Z9	B5718	B5719	B5722	B5720	B5715	B5716	B5717	B4A21	B4A22	B4A23	B4A24
Depth (inches):	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Date:	9/13/2011	9/13/2011	9/12/2011	9/14/2011	9/14/2011	9/15/2011	9/14/2011	9/14/2011	9/13/2011	9/13/2011	9/21/2011	9/21/2011	9/21/2011	9/21/2011
Comments:	-	-	-	-	-	-	-	-	-	-	-	-	-	Dup of RMA-SD62
Di-n-butylphthalate	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Di-n-octylphthalate	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Fluoranthene	220 U	**970**	260 UJ	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Fluorene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Hexachlorobenzene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Hexachlorobutadiene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Hexachlorocyclopentadiene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Hexachloroethane	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Indeno(1,2,3-cd)pyrene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Isophorone	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Naphthalene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Nitrobenzene	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
N-Nitroso-di-n-propylamine	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
N-Nitrosodiphenylamine	220 U	250 U	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Pentachlorophenol	430 U	490 U	510 U	1,400 UJ	690 U	650 U	450 U	780 U	470 U	500 U	420 U	470 U	400 U	410 U
Phenanthrene	220 U	**480**	260 U	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Phenol	*34 J*	*78 J*	260 U	710 UJ	350 U	330 U	230 U	400 U	*31 J*	260 U	210 U	240 U	210 U	210 U
Pyrene	220 U	**770**	260 UJ	710 UJ	350 U	330 U	230 U	400 U	240 U	260 U	210 U	240 U	210 U	210 U
Aroclors														
Aroclor-1016	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1221	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1232	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1242	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1248	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1254	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1260	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1262	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U
Aroclor-1268	43 U	49 U	51 U	140 UJ	69 U	65 U	45 U	78 U	47 U	50 U	42 U	47 U	40 U	41 U

All results are in micrograms per kilogram (µg/kg).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL).
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Detections below the adjusted CRQL are in *Italic* .
Detections above the adjusted CRQL are in **BOLD**.

Table 14
Ground Water Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	VW37	G-11	GM-22	GM-18	
Field Sample ID:	SCA-GW01	SCA-GW04	SCA-GW06	SCA-GW10	SCA-GW11
CLP Sample ID:	B98T0	B98T6	B98W0	B98W8	B98X0
Date:	9/20/2011	9/19/2011	9/21/2011	9/20/2011	9/20/2011
Comments:	-	-	-	-	Dup of SCA-GW10
SVOCs					
1,1'-Biphenyl	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
1,2,4,5-Tetrachlorobenzene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,2'-Oxybis(1-chloropropane)	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,3,4,6-Tetrachlorophenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,4,5-Trichlorophenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,4,6-Trichlorophenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,4-Dichlorophenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,4-Dimethylphenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,4-Dinitrophenol	10 UJ	10 UJ	10 U	10 UJ	10 UJ
2,4-Dinitrotoluene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2,6-Dinitrotoluene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2-Chloronaphthalene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2-Chlorophenol	5.2 U	5.1 U	*0.56 J*	5.1 U	5.2 U
2-Methylnaphthalene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2-Methylphenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
2-Nitroaniline	10 UJ	10 UJ	10 U	10 UJ	10 UJ
2-Nitrophenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
3,3'-Dichlorobenzidine	5.2 U	5.1 U	5.1 UJ	5.1 U	5.2 U
3-Nitroaniline	10 UJ	10 UJ	10 U	10 UJ	10 UJ
4,6-Dinitro-2-methylphenol	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
4-Chloro-3-methylphenol	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
4-Chloroaniline	5.2 U	5.1 U	5.1 UJ	5.1 U	5.2 U
4-Chlorophenyl-phenylether	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
4-Methylphenol	5.2 U	5.1 U	*3.3 J*	5.1 U	5.2 U
4-Nitroaniline	10 UJ	10 UJ	10 U	10 UJ	10 UJ
4-Nitrophenol	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Acenaphthene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Acenaphthylene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Acetophenone	5.2 U	5.1 U	*4.4 J*	5.1 U	5.2 U
Anthracene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Atrazine	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Benzaldehyde	5.2 UJ	5.1 UJ	5.1 U	5.1 UJ	5.2 UJ
Benzo(a)anthracene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Benzo(a)pyrene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Benzo(b)fluoranthene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Benzo(g,h,i)perylene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Benzo(k)fluoranthene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Bis(2-chloroethoxy)methane	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Bis(2-chloroethyl)ether	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Bis(2-ethylhexyl)phthalate	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Butylbenzylphthalate	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Caprolactam	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Carbazole	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Chrysene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Dibenzo(a,h)anthracene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Dibenzofuran	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Diethylphthalate	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U

Table 14
Ground Water Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	VW37	G-11	GM-22	GM-18	
Field Sample ID:	SCA-GW01	SCA-GW04	SCA-GW06	SCA-GW10	SCA-GW11
CLP Sample ID:	B98T0	B98T6	B98W0	B98W8	B98X0
Date:	9/20/2011	9/19/2011	9/21/2011	9/20/2011	9/20/2011
Comments:	-	-	-	-	Dup of SCA-GW10
Dimethylphthalate	*2.1 J*	5.1 U	5.1 U	*0.83 J*	*1.2 J*
Di-n-butylphthalate	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Di-n-octylphthalate	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Fluoranthene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Fluorene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Hexachlorobenzene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Hexachlorobutadiene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Hexachlorocyclopentadiene	5.2 U	5.1 U	5.1 UJ	5.1 U	5.2 U
Hexachloroethane	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Indeno(1,2,3-cd)pyrene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Isophorone	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Naphthalene	5.2 U	5.1 U	5.1 U	5.1 U	*0.45 J*
Nitrobenzene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
N-Nitroso-di-n-propylamine	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
N-Nitrosodiphenylamine	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Pentachlorophenol	10 U	10 U	10 U	10 U	10 U
Phenanthrene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Phenol	5.2 UJ	5.1 UJ	**15 J**	5.1 UJ	5.2 UJ
Pyrene	5.2 U	5.1 U	5.1 U	5.1 U	5.2 U
Aroclors					
Aroclor-1016	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1221	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1232	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1242	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1248	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1254	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1260	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1262	1 U	1 U	4 UJ	1 U	1 U
Aroclor-1268	1 U	1 U	4 UJ	1 U	1 U

All results are in micrograms per liter (µg/L).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL)
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Detections below the adjusted CRQL are in *Italic* .
Detections above the adjusted CRQL are in **BOLD**.

Table 15
Ground Water and Blank Sampling Results - Volatile Organic Compounds
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	VW37	G-9	VW16	G-11	GM-13D	GM-22	VW25	GM-14	GM-19	GM-18		MW-RIN03	SCA-TB01	SCA-TB02	SCA-TB03	SCA-TB04
Field Sample ID:	SCA-GW01	SCA-GW02	SCA-GW03	SCA-GW04	SCA-GW05	SCA-GW06	SCA-GW07	SCA-GW08	SCA-GW09	SCA-GW10	SCA-GW11	MW-RIN03	SCA-TB01	SCA-TB02	SCA-TB03	SCA-TB04
CLP Sample ID:	B98T0	B98T2	B98T4	B98T6	B98T8	B98W0	B98W2	B98W4	B98W6	B98W8	B98X0	B98L5	B98L9	B98M0	B98M1	B98M2
Date:	9/20/2011	9/19/2011	9/19/2011	9/19/2011	9/21/2011	9/21/2011	9/19/2011	9/20/2011	9/20/2011	9/20/2011	9/20/2011	9/19/2011	9/19/2011	9/19/2011	9/20/2011	9/21/2011
Comments:	-	-	-	-	-	-	-	-	-	-	Dup of SCA-GW10	bladder pump	-	-	-	-
VOCs																
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromo-3-chloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**20**	**19**	5 U	5 U	5 U	5 U	5 U
1,4-Dichlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**30**	**29**	5 U	5 U	5 U	5 U	5 U
1,4-Dioxane	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R	100 R
2-Butanone	10 U	10 U	10 U	10 U	10 U	**39**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	**18**	10 U	10 U	10 U	10 U	10 U	10 U	*1.7 J*	10 U	10 U	10 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U	10 U	*8 J*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	10 U	10 U	10 U	10 U	10 U	**480**	10 U	10 U	10 U	10 U	10 U	10 U	*8.8 J*	*9.5 J*	10 U	10 U
Benzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	**15**	**16**	5 U	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	*1.6 J*	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ
Cyclohexane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Isopropylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
m,p-Xylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl acetate	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl tert-Butyl ether	5 U	5 U	*1.2 J*	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
o-Xylene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	*1.1 J*	*1.2 J*	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U	5 UJ	5 UJ
Trichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichlorofluoromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

All results are in micrograms per liter (µg/L).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL).
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
Detections below the adjusted CRQL are in *Italic* .
Detections above the adjusted CRQL are in **BOLD**.

Table 16
Rinsate Blank Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	WST-RIN01	WST-RIN02	MW-RIN03	WST-RIN05
Field Sample ID:	WST-RIN01	WST-RIN02	MW-RIN03	WST-RIN05
CLP ID:	B98L3	B98L4	B98L5	B98L7
Date:	9/15/2011	9/16/2011	9/19/2011	9/19/2011
Comments:	hand auger	hand auger	bladder pump	hand auger
SVOCs				
1,1'-Biphenyl	5.2 U	5.1 UJ	5.2 U	5.1 U
1,2,4,5-Tetrachlorobenzene	5.2 U	5.1 UJ	5.2 U	5.1 U
2,2'-Oxybis(1-chloropropane)	5.2 U	5.1 UJ	5.2 U	5.1 U
2,3,4,6-Tetrachlorophenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2,4,5-Trichlorophenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2,4,6-Trichlorophenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2,4-Dichlorophenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2,4-Dimethylphenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2,4-Dinitrophenol	10 UJ	10 UJ	10 UJ	10 UJ
2,4-Dinitrotoluene	5.2 U	5.1 UJ	5.2 U	5.1 U
2,6-Dinitrotoluene	5.2 U	5.1 UJ	5.2 U	5.1 U
2-Chloronaphthalene	5.2 U	5.1 UJ	5.2 UJ	5.1 U
2-Chlorophenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2-Methylnaphthalene	5.2 U	5.1 UJ	5.2 UJ	5.1 U
2-Methylphenol	5.2 U	5.1 UJ	5.2 U	5.1 U
2-Nitroaniline	10 UJ	10 UJ	10 UJ	10 UJ
2-Nitrophenol	5.2 U	5.1 UJ	5.2 U	5.1 U
3,3'-Dichlorobenzidine	5.2 U	5.1 UJ	5.2 UJ	5.1 UJ
3-Nitroaniline	10 UJ	10 UJ	10 UJ	10 UJ
4,6-Dinitro-2-methylphenol	10 U	10 UJ	10 U	10 U
4-Bromophenyl-phenylether	5.2 U	5.1 UJ	5.2 U	5.1 U
4-Chloro-3-methylphenol	5.2 U	*0.71 J*	*0.75 J*	5.1 U
4-Chloroaniline	5.2 U	5.1 UJ	5.2 UJ	5.1 UJ
4-Chlorophenyl-phenylether	5.2 U	5.1 UJ	5.2 U	5.1 U
4-Methylphenol	5.2 U	5.1 UJ	5.2 U	5.1 U
4-Nitroaniline	10 UJ	10 UJ	10 UJ	10 UJ
4-Nitrophenol	10 UJ	10 UJ	10 UJ	10 UJ
Acenaphthene	5.2 U	5.1 UJ	5.2 UJ	5.1 U
Acenaphthylene	5.2 U	5.1 UJ	5.2 UJ	5.1 U
Acetophenone	5.2 U	5.1 UJ	5.2 U	5.1 U
Anthracene	5.2 U	5.1 UJ	5.2 U	5.1 U
Atrazine	5.2 U	5.1 UJ	5.2 U	5.1 U
Benzaldehyde	*0.54 J*	*0.56 J*	*0.62 J*	5.1 UJ
Benzo(a)anthracene	5.2 U	5.1 UJ	5.2 U	5.1 U
Benzo(a)pyrene	5.2 U	5.1 UJ	5.2 U	5.1 U
Benzo(b)fluoranthene	5.2 U	5.1 UJ	5.2 U	5.1 U
Benzo(g,h,i)perylene	5.2 U	5.1 UJ	5.2 U	5.1 U
Benzo(k)fluoranthene	5.2 U	5.1 UJ	5.2 U	5.1 U
Bis(2-chloroethoxy)methane	5.2 U	5.1 UJ	5.2 U	5.1 U
Bis(2-chloroethyl)ether	5.2 U	5.1 UJ	5.2 U	5.1 U
Bis(2-ethylhexyl)phthalate	5.2 U	5.1 UJ	5.2 U	5.1 U
Butylbenzylphthalate	5.2 U	5.1 UJ	5.2 U	5.1 U
Caprolactam	5.2 U	5.1 UJ	5.2 U	5.1 U
Carbazole	5.2 U	5.1 UJ	5.2 U	5.1 U
Chrysene	5.2 U	5.1 UJ	5.2 U	5.1 U
Dibenzo(a,h)anthracene	5.2 U	5.1 UJ	5.2 U	5.1 U

Table 16
Rinsate Blank Sampling Results - Semivolatile Organic Compounds and Aroclors
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	WST-RIN01	WST-RIN02	MW-RIN03	WST-RIN05
Field Sample ID:	WST-RIN01	WST-RIN02	MW-RIN03	WST-RIN05
CLP ID:	B98L3	B98L4	B98L5	B98L7
Date:	9/15/2011	9/16/2011	9/19/2011	9/19/2011
Comments:	hand auger	hand auger	bladder pump	hand auger
Dibenzofuran	5.2 U	5.1 UJ	5.2 U	5.1 U
Diethylphthalate	5.2 U	5.1 UJ	5.2 U	5.1 U
Dimethylphthalate	5.2 U	5.1 UJ	5.2 U	5.1 U
Di-n-butylphthalate	5.2 U	5.1 UJ	5.2 U	5.1 U
Di-n-octylphthalate	5.2 U	5.1 UJ	5.2 U	5.1 U
Fluoranthene	5.2 U	5.1 UJ	5.2 U	5.1 U
Fluorene	5.2 U	5.1 UJ	5.2 U	5.1 U
Hexachlorobenzene	5.2 U	5.1 UJ	5.2 U	5.1 U
Hexachlorobutadiene	5.2 U	5.1 UJ	5.2 U	5.1 U
Hexachlorocyclopentadiene	5.2 U	5.1 UJ	5.2 UJ	5.1 UJ
Hexachloroethane	5.2 U	5.1 UJ	5.2 U	5.1 U
Indeno(1,2,3-cd)pyrene	5.2 U	5.1 UJ	5.2 U	5.1 U
Isophorone	5.2 U	5.1 UJ	5.2 U	5.1 U
Naphthalene	5.2 U	5.1 UJ	5.2 UJ	5.1 U
Nitrobenzene	5.2 U	5.1 UJ	5.2 U	5.1 U
N-Nitroso-di-n-propylamine	5.2 U	5.1 UJ	5.2 U	5.1 U
N-Nitrosodiphenylamine	5.2 U	5.1 UJ	5.2 U	5.1 U
Pentachlorophenol	10 U	10 UJ	10 U	10 U
Phenanthrene	5.2 U	5.1 UJ	5.2 U	5.1 U
Phenol	5.2 UJ	5.1 UJ	5.2 UJ	5.1 UJ
Pyrene	5.2 U	5.1 UJ	5.2 U	5.1 U
Aroclors				
Aroclor-1016	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1221	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1232	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1242	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1248	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1254	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1260	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1262	1 UJ	1 UJ	1 U	1 UJ
Aroclor-1268	1 UJ	1 UJ	1 U	1 UJ

All results are in micrograms per liter (µg/L).
U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit (i.e., the adjusted CRQL).
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Detections below the adjusted CRQL are in*Italic* .

Table 17
Minimum and Maximum Values for pH and Contaminants of Concern per Investigated Area
St. Croix Alumina (Renaissance Park) Site - September 2011

Solid Samples	pH		Arsenic		Chromium		Mercury		Selenium		Vanadium	
	Std. Units		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
Background Soil												
Surface	6.96	7.80	2.6	5.0	8.2	48	ND	0.128	ND	ND	10	64
Subsurface	7.72	7.81	2.9	4.9	28	36	ND	0.075	ND	ND	35	110
Red Mud Area A												
Surface	9.45	12.05	3.6	16	280	870	0.138	0.422	ND	16	490	1,300
Subsurface	10.12	12.52	3.3	15	250	1,500	0.076	0.513	ND	ND	470	790
RMA Depositional Area												
Surface	7.52	10.48	7.8	18	180	410	0.137	0.469	ND	3.7	400	980
Subsurface	n/a		n/a		n/a		n/a		n/a		n/a	
Red Mud Area B												
Surface	8.06	12.35	ND	21	16	1,800	ND	0.348	ND	3.1	37	1,300
Subsurface	9.89	12.59	7.4	17	180	970	ND	0.075	ND	ND	470	790
Ash Disposal Pond												
Surface	9.83	10.17	30	35	19	23	0.094	0.218	8.9	10	81	99
Subsurface	6.83	8.27	5.6	13	7.3	9.5	ND	ND	10	11	22	31
Sediment	8.99	9.50	8.5	21	16	96	ND	0.461	ND	ND	62	170
Former Bauxite Shed												
Surface	9.02	10.93	6.3	47	99	240	0.098	0.236	ND	3.2	180	660
Subsurface	n/a		n/a		n/a		n/a		n/a		n/a	
Background SW/SD												
Sediment	7.56	8.20	1.2	5.5	9.6	27	ND	ND	ND	ND	18	110
Red Mud Settling Pond												
Sediment	9.68	10.48	7.0	15	360	480	0.14	0.338	ND	2.7	370	1,100
Upper Cooling Pond												
Sediment	7.69	10.20	8.1	26	220	550	0.076	0.314	ND	ND	330	640
Lower Cooling Pond												
Sediment	7.30	8.58	5.2	34	35	570	ND	ND	ND	2.9	110	590
West Ditch												
Sediment	7.68	8.38	4.0	8.1	33	160	ND	0.049	ND	ND	110	210
AluCroix Channel												
Sediment	7.21	8.55	2.2	12	7.0	51	ND	0.062	ND	3.4	8.2	130
Coastal Mangroves												
Sediment	7.31	8.65	2.8	18	3.9	140	ND	ND	ND	ND	10	210

Table 17
Minimum and Maximum Values for pH and Contaminants of Concern per Investigated Area
St. Croix Alumina (Renaissance Park) Site - September 2011

Aqueous Samples	Ph (Std. Units)		Arsenic		Chromium		Mercury		Selenium		Vanadium	
	Std. Units		µg/L		µg/L		µg/L		µg/L		µg/L	
	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High
Red Mud Area A												
Surface Water	10.43	10.55	150		2,900		0.710		54		5,200	
Ash Disposal Pond												
Surface Water	9.57	9.65	150	160	ND	ND	ND	ND	ND	ND	190	210
Background SW/SD												
Surface Water	6.98	7.89	ND	85	ND	75	ND	ND	ND	ND	ND	270
Red Mud Settling Pond												
Surface Water	9.53	10.10	29	160	430	16,000	ND	ND	ND	650	1,300	4,500
Upper Cooling Pond												
Surface Water	8.17	9.88	ND	27	150	780	ND	ND	ND	37	45	1,500
Lower Cooling Pond												
Surface Water	8.05	10.16	19	220	ND	240	ND	ND	ND	25	130	2,200
West Ditch												
Surface Water	8.05	8.10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
AluCroix Channel												
Surface Water	7.55	9.31	ND	11	ND	ND	ND	ND	ND	ND	ND	ND
Coastal Mangroves												
Surface Water	7.62	9.06	ND	41	ND	71	ND	ND	ND	ND	ND	110
Ground Water												
Fill/Clay/Leachate (unfiltered)	7.40	12.78	ND	2,700	ND	1,400	ND	0.501	ND	350	ND	18,000
Fill/Clay/Leachate (filtered)	n/a		ND	2,800	ND	1,300	ND	0.468	ND	360	ND	18,000
Kingshill Aquifer (unfiltered)	6.72	7.76	ND	17 J	ND	41	ND	ND	ND	ND	ND	77
Kingshill Aquifer (filtered)	n/a		ND	8.3 J	ND	ND	ND	ND	ND	ND	ND	42

Table 18
Background Soil Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**BG-S01**	**BG-S02**		**BG-S03**	**BG-S04**	**BG-S05**	**BG-S06**	**BG-S16**
Field Sample ID:	**BG-S01**	**BG-S02**	**BG-SS02**	**BG-S03**	**BG-S04**	**BG-S05**	**BG-S06**	**BG-S16A**
Date:	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/21/2011**
Depth (inches):	**0-6**	**0-6**	**16**	**0-6**	**0-6**	**0-6**	**0-6**	**42**
Comments:	**-**	**-**	**-**	**-**	**-**	**-**	**Dup of BG-S05**	**-**
pH (Standard Units)	7.80	7.42	7.72	7.03	7.50	7.50	7.50	7.81
Inorganics								
Aluminum	3,100	25,000	27,000	30,000	30,000	19,000	17,000	23,000
Antimony	1.7 U	1.9 U	1.9 U	1.9 U	2.1 U	1.7 U	1.8 U	2.1 U
Arsenic	**3.7**	**5.0**	**4.9**	**4.8**	**4.4**	**2.6**	**2.7**	**2.9**
Barium	61	73	79	89	82	75	73	120
Beryllium	0.25 U	0.28 U	0.29 U	0.28 U	0.31 U	0.34	0.35	0.32 U
Cadmium	0.25 U	0.28 U	0.29 U	0.28 U	0.31 U	0.26 U	0.28 U	0.32 U
Calcium	340,000 D^{10}	150,000 D^{10}	160,000 D^{10}	83,000	88,000	210,000 D^{10}	210,000 D^{10}	15,000
Chromium	**8.2**	**35**	**36**	**38**	**48**	**22**	**20**	**28**
Cobalt	1.7	10	11	12	11	8.5	8.1	20
Copper	13 K	38	36	45	31	33	32	59
Iron	3,400	21,000	21,000	23,000	27,000	14,000	13,000	30,000
Lead	49	13	9.3	19	13	15	14	5.8
Magnesium	4,000	5,100	5,300	5,100	5,500	8,000	7,700	6,500
Manganese	68	690	720	730	670	500	470	1,200 J
Nickel	5.3	19	18	25	17	19	18	14
Potassium	610	5,600	6,100	7,800	6,700	5,800	5,400	2,400
Selenium	1.7 U	1.9 U	1.9 U	1.9 U	2.1 U	1.7 U	1.8 U	2.1 U
Silver	0.42 U	0.47 U	0.49 U	0.46 U	0.52 U	0.44 U	0.46 U	0.53 U
Sodium	290 J	170	190	160	130	200	190	890
Thallium	1.7 U	1.9 U	1.9 U	1.9 U	2.1 U	1.7 U	1.8 U	2.1 UJ
Vanadium	**10**	**40**	**35**	**53**	**64**	**34**	**32**	**110**
Zinc	65 J	70	39	94	57	100	97	47
Mercury	**0.128 K**	**0.083**	**0.075**	**0.072**	0.048 U	0.045 U	0.044 U	0.051 U

All results are in miligrams per kilogram (mg/kg) unless ohterwise noted.
U = The anlyte was not detected at or above the Reporting Limit.
J = The identification of the analyte ia acceptable; the reported value is an estimate.
K = The identification of the analyte is acceptable; the reported value may be biased high.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in**BOLD**.

Table 19
RMA Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**RMA-WST01**			**RMA-WST02**		**RMA-WST03**		**RMA-WST04**		**RMA-WST05**	
Field Sample ID:	**RMA-WST01A**	**RMA-WST01B**	**RMA-WST01C**	**RMA-WST02A**	**RMA-WST02B**	**RMA-WST03A**	**RMA-WST03B**	**RMA-WST04A**	**RMA-WST04B**	**RMA-WST05A**	**RMA-WST05B**
Date:	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**
Depth (inch):	**0-3**	**48**	**48**	**0-3**	**24-48**	**0-3**	**54**	**0-3**	**48**	**0-3**	**36-48**
Comments:	-	-	**Dup of RMA-WST01B**	-	-	-	-	-	-	-	-
pH (Standard Units)	9.45	11.11	11.14	10.66	11.88	10.81	12.47	10.57	12.52	11.25	12.33
Inorganics											
Aluminum	36,000 D^{2}	65,000	83,000 D^{10}	93,000	86,000	86,000	85,000	100,000 D^{25}	92,000	75,000	90,000
Antimony	4.2 UJD^{2}	1.8 U	**3.1**	2.3 U	2.3 U	2.5 U	2.4 U	2.4 U	**3.2**	2.3 U	2.5 U
Arsenic	**16** D^{2}	**8.8**	**9.2**	**6.5**	**8.8**	**5.8**	**9.7**	**7.1**	**9.2**	**11**	**9.7**
Barium	21 UD^{2}	62	88	72	76	64	76	42	67	100	120
Beryllium	0.63 UD^{2}	0.26 U	0.27 U	0.35 U	0.35 U	0.38 U	0.42	0.36 U	0.36 U	0.34 U	0.37 U
Cadmium	**0.72** D^{2}	**0.83**	**1.5**	**0.41**	**0.67**	0.38 U	**0.69**	**0.54**	**1.4**	**0.54**	**0.51**
Calcium	9,600 D^{2}	88,000	24,000	11,000	13,000	14,000	11,000	7,800	8,400	8,800	7,100
Chromium	**310** D^{2}	**310**	**420**	**510**	**430**	**670**	**500**	**350**	**270**	**760**	**530**
Cobalt	4.2 UD^{2}	1.8 U	1.8 U	2.3 U	2.3 U	2.5 U	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U
Copper	12 D^{2}	11	11	14	10	14	12	9.0	4.9	9.1	7.2
Iron	380,000 D^{25}	170,000 D^{10}	210,000 D^{10}	210,000 D^{25}	210,000 D^{10}	190,000 D^{25}	210,000 D^{10}	250,000 D^{25}	250,000 D^{10}	180,000 D^{10}	200,000 D^{10}
Lead	39 D^{2}	30	38	29	31	34	37	20	19	43	37
Magnesium	2,500 D^{2}	6,100	4,700	480	710	700	640	670	910	550	680
Manganese	430 D^{2}	210	140	27	31	41	54	17	14	25	17
Nickel	9.3 JD^{2}	9.0	11	7.6	11	7.1	11	4.2	9.3	9.6	9.9
Potassium	240 JD^{2}	480	530	550	600	800	540	750	630	590	390
Selenium	4.2 UD^{2}	1.8 U	1.8 U	**2.6**	2.3 U	**4.6**	2.4 U	**3.1**	2.4 U	2.3 U	2.5 U
Silver	1.1 UD^{2}	0.44 U	0.44 U	**0.87**	0.58 U	**1.1**	0.59 U	**1.4**	0.60 U	0.56 U	0.61 U
Sodium	4,400 D^{2}	29,000	39,000	64,000	56,000	65,000	50,000	60,000	57,000	62,000	60,000
Thallium	4.2 UJD^{2}	1.8 U	1.8 U	2.3 U	2.3 U	2.5 U	2.4 U	2.4 U	2.4 U	2.3 U	2.5 U
Vanadium	**1,100** D^{2}	**470**	**580**	**720**	**660**	**560**	**580**	**650**	**590**	**530**	**620**
Zinc	14 D^{2}	13	14	8.8	10	6.0	13	9.5	7.9	11	7.6
Mercury	**0.263**	**0.169**	**0.168**	**0.336**	**0.308**	**0.189**	**0.245**	**0.396**	**0.461**	**0.320**	**0.328**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates the dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 19
RMA Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**RMA-WST06**		**RMA-WST07**		**RMA-WST08**		**RMA-WST09**		**RMA-WST10**	
Field Sample ID:	**RMA-WST06A**	**RMA-WST06B**	**RMA-WST07A**	**RMA-WST07B**	**RMA-WST08A**	**RMA-WST08B**	**RMA-WST09A**	**RMA-WST09B**	**RMA-WST10A**	**RMA-WST10B**
Date:	**9/16/2011**	**9/15/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**
Depth (inch):	**0-3**	**36-48**	**0-3**	**96**	**0-3**	**54**	**0-3**	**84**	**0-3**	**60-72**
Comments:	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	10.87	12.01	10.82	11.27	11.10	12.34	10.71	10.91	12.05	11.65
Inorganics										
Aluminum	70,000	61,000	84,000	44,000	81,000	100,000 D^{10}	66,000	89,000	76,000	74,000 D^{10}
Antimony	2.1 U	2.2 U	2.4 U	**7.4**	2.3 U	2.5 U	2.2 U	2.6 U	**3.1**	**3.8**
Arsenic	**3.8**	**15**	**7.1**	**10**	**13**	**11**	**16**	**3.3**	**9.5**	**7.6**
Barium	65	78	97	160	110	150	47	69	62	16
Beryllium	0.32 U	0.33 U	0.36 U	1.2	0.34 U	0.37 U	0.32 U	0.39 U	0.33 U	0.28 U
Cadmium	0.32 U	**0.58 J**	0.36 U	**0.77 J**	**0.90**	**0.99**	**0.76**	0.39 U	**0.50**	**1.5**
Calcium	15,000	16,000	9,500	16,000	5,300	8,300	19,000	11,000	6,100	5,300
Chromium	**840**	**910**	**490**	**1,500**	**520**	**490**	**320**	**560**	**280**	**370**
Cobalt	2.1 U	2.2 U	2.4 U	37	2.3 U	2.5 U	2.2 U	2.6 U	2.2 U	1.8 U
Copper	15	10	12	32 D^{10}	9.4	12	13	11	4.0	2.0
Iron	210,000 D^{25}	200,000 D^{10}	190,000 D^{25}	170,000 D^{10}	210,000 D^{10}	200,000 D^{10}	280,000 D^{25}	180,000 D^{25}	210,000 D^{10}	250,000 D^{10}
Lead	58	68	33	88	28	39	32	33	22	30
Magnesium	800	800	770	1,300	650	710	1,100	440	650	640
Manganese	59	65	37	84	26	33	110	19	24	23
Nickel	6.3	9.8	6.7	16	10	13	4.3	6.6	7.5	7.8
Potassium	410	560	810	1,600	1,300	780	390	310	480	320
Selenium	2.1 U	2.2 U	2.4 U	2.2 U	**4.7**	2.5 U	**2.7**	2.6 U	2.2 U	1.8 U
Silver	0.53 U	0.55 U	**0.80**	0.55 U	0.57 U	0.62 U	**1.4**	**1.1**	**0.58**	0.46 U
Sodium	41,000	28,000	63,000	29,000	76,000	60,000	34,000	57,000	63,000	41,000
Thallium	2.1 U	2.2 U	2.4 U	2.2 U	2.3 U	2.5 U	2.2 U	2.6 U	2.2 U	1.8 U
Vanadium	**610**	**750**	**1,300**	**470**	**920**	**710**	**890**	**480**	**580**	**610**
Zinc	5.9	11	8.7	17	12	21	16	4.6	6.3	4.8
Mercury	**0.213**	**0.201**	**0.213**	**0.076**	**0.171**	**0.164**	**0.229**	**0.290**	**0.138**	**0.240**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates the dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 19
RMA Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**RMA-WST11**			**RMA-WST12**		**RMA-WST13**		**RMA-WST14**		**RMA-WST15**
Field Sample ID:	**RMA-WST11A**	**RMA-WST11B**	**RMA-WST11C**	**RMA-WST12A**	**RMA-WST12B**	**RMA-WST13A**	**RMA-WST13B**	**RMA-WST14A**	**RMA-WST14B**	**RMA-WST15A**
Date:	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/15/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**
Depth (inch):	**0-3**	**96**	**0-3**	**0-3**	**36-48**	**0-3**	**96**	**0-3**	**42**	**0-3**
Comments:	-	-	**Dup of RMA-WST11A**	-	-	-	-	-	-	-
pH (Standard Units)	10.75	11.77	11.05	10.99	11.55	10.88	10.58	10.33	10.67	10.23
Inorganics										
Aluminum	85,000	85,000	87,000	96,000	74,000	77,000	70,000	40,000	120,000 D^{25}	63,000
Antimony	2.3 U	2.3 U	2.5 U	2.5 U	2.0 U	2.3 U	2.2 U	2.3 U	2.4 U	2.3 U
Arsenic	**5.6**	**10**	**5.3**	**11**	**11**	**3.6**	**4.9**	**15**	**8.2**	**12**
Barium	83	100	86	89	49	52	80	63	37	54
Beryllium	0.35 U	0.34 U	0.37 U	0.37 U	0.30 U	0.34 U	0.33 U	0.34 U	0.35 U	0.35 U
Cadmium	0.35 U	**0.51**	0.37 U	0.37 U	**1.7**	0.34 U	0.33 U	**0.64**	0.35 U	**0.40**
Calcium	9,900	7,200	10,000	8,900	6,800	14,000	19,000	33,000	20,000	35,000
Chromium	**770**	**500**	**770**	**490**	**640**	**870**	**1,100**	**370**	**250**	**320**
Cobalt	2.3 U	2.3 U	2.5 U	2.5 U	2.0 U	2.3 U	2.2 U	2.3 U	2.4 U	2.3 U
Copper	14	8.3	15	12	4.4	12	16	14	9.7	15
Iron	200,000 D^{25}	230,000 D^{10}	200,000 D^{25}	220,000 D^{25}	250,000 D^{10}	200,000 D^{25}	190,000 D^{25}	310,000 D^{25}	240,000 D^{25}	250,000 D^{25}
Lead	36	36	37	35	47	41	79	45	18	32
Magnesium	580	520	600	1,200	1,400	580	470	1,400	1,300	1,900
Manganese	51	19	45	49	110	65	60	170	22	87
Nickel	6.8	10	7.2	6.5	11	6.4	7.1	4.3	4.6	4.7
Potassium	1,200	830	1,200	760	450	500	230	370	460	690
Selenium	**16**	2.3 U	**13**	2.5 U	2.0 U	2.3 U	2.2 U	2.3 U	2.4 U	2.3 U
Silver	**0.76**	0.56 U	**0.71**	**1.1**	0.50 U	**0.94**	0.55 U	**1.3**	**1.3**	**1.6**
Sodium	76,000	57,000	76,000	56,000	41,000	63,000	25,000	16,000	49,000	27,000
Thallium	2.3 U	2.3 U	2.5 U	2.5 U	2.0 U	2.3 U	2.2 U	2.3 U	2.4 U	2.3 U
Vanadium	**610**	**730**	**640**	**910**	**790**	**530**	**580**	**960**	**620**	**760**
Zinc	5.2	12	6.4	9.5	7.7	3.8	2.2 U	21	12	21
Mercury	**0.241**	**0.393**	**0.294**	**0.195**	**0.222**	**0.296**	**0.180**	**0.147**	**0.461**	**0.193**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates the dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 19
RMA Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**RMA-WST16**		**RMA-WST17**		**RMA-WST18**		**RMA-WST19**		**RMA-WST20**	
Field Sample ID:	**RMA-WST16A**	**RMA-WST16B**	**RMA-WST17A**	**RMA-WST17B**	**RMA-WST18A**	**RMA-WST18B**	**RMA-WST19A**	**RMA-WST19B**	**RMA-WST20A**	**RMA-WST20B**
Date:	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/16/2011**	**9/15/2011**	**9/15/2011**	**9/16/2011**	**9/16/2011**	**9/15/2011**	**9/15/2011**
Depth (inch):	**0-3**	**90**	**0-3**	**36**	**0-3**	**-**	**0-3**	**60**	**0-3**	**48**
Comments:	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	10.61	10.65	10.74	10.57	10.91	11.44	10.78	12.4	10.80	10.12
Inorganics										
Aluminum	68,000	120,000 D^{25}	140,000 D^{25}	71,000	87,000	86,000	84,000	99,000	86,000	79,000
Antimony	2.2 U	2.0 U	2.3 U	2.1 U	2.3 U	2.4 U	2.4 U	2.5 U	2.4 U	2.2 U
Arsenic	**11**	**7.0**	**7.7**	**5.8**	**3.9**	**12**	**6.2**	**11**	**6.1**	**8.7**
Barium	65	77	80	80	93	68	130	170	85	66
Beryllium	0.32 U	0.30 U	0.34 U	0.32 U	0.46	0.36 U	0.35 U	0.72	0.35 U	0.33 U
Cadmium	**0.47**	**0.59**	**0.35**	0.32 U	0.35 U	**0.63**	0.35 U	**0.50**	0.35 U	**0.40**
Calcium	25,000	15,000	22,000	80,000	11,000	7,800	7,200	13,000	6,600	9,100
Chromium	**410**	**420**	**440**	**400**	**680**	**540**	**670**	**480**	**500**	**370**
Cobalt	2.2 U	2.0 U	2.3 U	2.1 U	2.3 U	2.4 U	2.4 U	3.0	2.4 U	2.2 U
Copper	13	13	13	14	15	6.6	13	20	12	13
Iron	250,000 D^{25}	230,000 D^{25}	210,000 D^{25}	170,000 D^{25}	190,000 D^{25}	230,000 D^{10}	220,000 D^{25}	180,000 D^{10}	190,000 D^{25}	250,000 D^{25}
Lead	38	33	34	30	37	38	33	28	29	28
Magnesium	1,200	1,700	720	2,500	550	450	650	680	680	1,200
Manganese	65	150	47	97	27	16	20	37	33	93
Nickel	4.9	6.4	5.6	6.4	8.5	9.2	7.4	18	7.1	5.8
Potassium	370	460	440	600	1,000	400	1,300	950	1,100	590
Selenium	2.2 U	2.0 U	2.3 U	2.1 U	2.3 U	2.4 U	**4.7**	2.5 U	**2.9**	2.2 U
Silver	**1.4**	**1.1**	**1.3**	**0.90**	**0.74**	0.60 U	**0.76**	0.62 U	**0.60**	**0.95**
Sodium	31,000	40,000	37,000	34,000	67,000	56,000	68,000	56,000	95,000 D^{25}	42,000
Thallium	2.2 U	2.0 U	2.3 U	2.1 U	2.3 U	2.4 U	2.4 U	2.5 U	2.4 U	2.2 U
Vanadium	**800**	**660**	**640**	**520**	**490**	**790**	**610**	**620**	**550**	**710**
Zinc	15	15	12	15	6.7	6.3	13	21	11	16
Mercury	**0.158**	**0.201**	**0.308**	**0.159**	**0.373**	**0.367**	**0.422**	**0.513**	**0.270**	**0.349**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates the dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 20
RMA Depositional Area Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**RMA-SD57**	**RMA-SD58**	**RMA-SD59**	**RMA-SD60**	**RMA-SD61**	**RMA-SD62**	
Field Sample ID:	**RMA-SD57**	**RMA-SD58**	**RMA-SD59**	**RMA-SD60**	**RMA-SD61**	**RMA-SD62**	**RMA-SD63**
Date:	**9/21/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	**Dup of RMA-SD62**
pH (Standard Units)	10.48	10.48	9.86	9.85	7.52	9.84	9.98
Inorganics							
Aluminum	34,000	43,000	47,000	41,000	27,000	23,000	22,000
Antimony	**7.2**	**3.6**	**7.4**	**6.4**	**3.7**	**8.1**	**10**
Arsenic	**18**	**7.8**	**10**	**11**	**14**	**15**	**16**
Barium	49	73	100	76	130	50	54
Beryllium	0.33 U	0.34 U	0.33 U	0.31 U	0.35 U	0.28 U	0.29 U
Cadmium	**0.34**	0.34 U	**0.60**	0.31 U	0.35 U	**0.61**	**0.47**
Calcium	52,000	150,000 D^{25}	36,000	44,000	63,000	23,000	18,000
Chromium	**300**	**230**	**410**	**380**	**180**	**290**	**310**
Cobalt	2.2 U	2.7	3.9	2.7	6.6	1.8 U	2.0 U
Copper	15	14	20	17	26	16	17
Iron	290,000 D^{25}	130,000 D^{25}	250,000 D^{25}	230,000 D^{25}	190,000 D^{25}	330,000 D^{25}	380,000 D^{25}
Lead	39	22	47	40	23	43	47
Magnesium	1,400	3,300	2,200	2,300	4,000	1,900	1,700
Manganese	130	190	180	130	660	170	170
Nickel	2.9	5.5	6.4	4.8	6.8	3.9	3.8
Potassium	220	680	660	480	2,200	240	250
Selenium	**3.7**	2.3 U	**2.9**	**2.3**	**3.1**	**3.2**	**3.7**
Silver	**1.3**	**0.70**	**1.2**	**1.0**	**0.61**	**1.2**	**1.2**
Sodium	13,000	21,000	17,000	15,000	1,100	4,500	4,600
Thallium	2.2 U	2.3 U	2.2 U	2.1 U	2.3 U	1.8 U	3.9 U
Vanadium	**860**	**400**	**680**	**610**	**580**	**860**	**980**
Zinc	12	21	18	15	26	14	12
Mercury	**0.175**	**0.137**	**0.154**	**0.156**	**0.469**	**0.145**	**0.179**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 21
RMB Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**RMB-WST22**		**RMB-WST23**			**RMB-WST24**	**RMB-WST28**		**RMB-WST29**		**RMB-WST30**	
Field Sample ID:	**RMB-WST22A**	**RMB-WST22B**	**RMB-WST23A**	**RMB-WST23B**	**RMB-WST23C**	**RMB-WST24A**	**RMB-WST28A**	**RMB-WST28B**	**RMB-WST29A**	**RMB-WST29B**	**RMB-WST30A**	**RMB-WST30B**
Date:	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**
Depth (inches):	**0-3**	**120**	**0-3**	**90**	**90**	**0-3**	**0-3**	**36-48**	**0-3**	**36-48**	**0-3**	**36-48**
Comments:	**-**	**-**	**-**	**-**	**Dup of RMB-WST23B**	**-**	**-**	**-**	**-**	**-**	**-**	**-**
pH (Standard Units)	11.02	11.91	11.05	12.49	12.44	10.30	10.57	11.70	10.54	11.13	10.69	10.62
Inorganics												
Aluminum	68,000 D^{4}	57,000 D^{4}	44,000	50,000 D^{4}	52,000 D^{4}	52,000 D^{2}	140,000 D^{25}	98,000 D^{4}	48,000	95,000 D^{4}	150,000 D^{25}	84,000 D^{2}
Antimony	10 UD^{4}	8.9 UD^{4}	**7.6**	7.6 UD^{4}	10 UD^{4}	4.0 UD^{2}	2.2 U	12 UD^{4}	1.8 U	10 UD^{4}	2.3 U	5.3 UD^{2}
Arsenic	**13** D^{4}	**7.4** D^{4}	**17**	**10** D^{4}	**12** D^{4}	1.6 UD^{2}	**12**	**16** D^{4}	**12**	**17** D^{4}	**9.7**	**9.2** D^{2}
Barium	52 UD^{4}	44 UD^{4}	59	38 UD^{4}	52 UD^{4}	20 UD^{2}	110	59 UD^{4}	41	55 UD^{4}	76	27 UD^{2}
Beryllium	1.6 UD^{4}	1.3 UD^{4}	0.51	1.1 UD^{4}	1.5 UD^{4}	0.59 UD^{2}	0.33 U	1.8 UD^{4}	0.28 U	1.7 UD^{4}	0.35 U	0.80 UD^{2}
Cadmium	1.6 UD^{4}	1.3 UD^{4}	**1.0**	1.1 UD^{4}	1.5 UD^{4}	0.59 UD^{2}	0.33 U	1.8 UD^{4}	0.28 U	1.7 UD^{4}	0.35 U	0.80 UD^{2}
Calcium	6,900 D^{4}	5,300 D^{4}	13,000	3,900 D^{4}	4,400 D^{4}	1,800 D^{2}	26,000	7,700 D^{4}	150,000 D^{25}	6,200 D^{4}	14,000	9,500 D^{2}
Chromium	**350** D^{4}	**280** D^{4}	**440**	**230** D^{4}	**240** D^{4}	**16** D^{2}	**740**	**290** D^{4}	**250**	**180** D^{4}	**890**	**570** D^{2}
Cobalt	10 UD^{4}	8.9 UD^{4}	3.4	7.6 UD^{4}	10 UD^{4}	4.0 UD^{2}	3.0	12 UD^{4}	2.4	11 UD^{4}	3.8	5.3 UD^{2}
Copper	15 D^{4}	21 D^{4}	21	16 D^{4}	17 D^{4}	2.0 UD^{2}	17	12 D^{4}	13	15 D^{4}	18	2.7 UD^{2}
Iron	290,000 D^{25}	400,000 D^{25}	290,000 D^{25}	360,000 D^{25}	390,000 D^{25}	330,000 D^{50}	130,000 D^{25}	210,000 D^{4}	140,000 D^{25}	210,000 D^{4}	130,000 D^{25}	170,000 D^{5}
Lead	55 D^{4}	59 D^{4}	66	45 D^{4}	47 D^{4}	2.1 D^{2}	66	46 D^{4}	31	41 D^{4}	55	61 D^{2}
Magnesium	430 D^{4}	400 D^{4}	490	360 D^{4}	380 D^{4}	190 D^{2}	7,000	1,700 D^{4}	3,600	540 D^{4}	2,600	430 D^{2}
Manganese	860 D^{4}	3,100 D^{4}	650	2,300 D^{4}	3,000 D^{4}	39 D^{2}	52	530 D^{4}	330	680 D^{4}	98	120 D^{2}
Nickel	12 D^{4}	9.1 D^{4}	6.3	8.5 D^{4}	10 UD^{4}	4.0 UD^{2}	13	12 UD^{4}	6.2	11 UD^{4}	14	22 D^{2}
Potassium	480 D^{4}	220 D^{4}	190	190 UD^{4}	260 UD^{4}	99 UD^{2}	860	470 D^{4}	620	320 D^{4}	950	670 D^{2}
Selenium	10 UD^{4}	8.9 UD4	**3.1**	7.6 UD^{4}	10 UD^{4}	4.0 UD^{2}	2.2 U	12 UD^{4}	1.8 U	11 UD^{4}	2.3 U	5.3 UD^{2}
Silver	2.6 UD^{4}	2.2 UD^{4}	**0.82**	1.9 UD^{4}	2.6 UD^{4}	0.99 UD^{2}	0.55 U	2.9 UD^{4}	**1.3**	2.8 UD^{4}	**0.73**	**1.6** D^{2}
Sodium	66,000 D^{4}	29,000 D^{4}	32,000	34,000 D^{4}	35,000 D^{4}	710 D^{2}	48,000	70,000 D^{4}	23,000	68,000 D^{4}	63,000	58,000 D^{2}
Thallium	10 UD^{4}	8.9 UD^{4}	2.3 U	7.6 UD^{4}	10 UD^{4}	4.0 UD^{2}	2.2 U	12 UD^{4}	1.8 U	11 UD^{4}	2.3 U	5.3 UD^{2}
Vanadium	**630** D^{4}	**860** D^{4}	**910**	**760** D^{4}	**820** D^{4}	**37** D^{2}	**590**	**500** D^{4}	**430**	**460** D^{4}	**560**	**480** D^{2}
Zinc	22 D^{4}	60 D^{4}	30	42 D^{4}	51 D^{4}	4.0 UD^{2}	2.2 U	17 D^{4}	20	21 D^{4}	2.3 U	5.3 UD^{2}
Mercury	0.057 U	0.046 U	**0.080**	0.048 U	0.055 U	0.053 U	**0.105**	**0.070**	0.045 U	0.073 U	**0.070**	0.069 U

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
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$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 21
RMB Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	RMB-WST32	RMB-WST34		RMB-WST36	RMB-WST37		RMB-WST38	RMB-WST39		RMB-WST40
Field Sample ID:	RMB-WST32A	RMB-WST34A	RMB-WST34B	RMB-WST36A	RMB-WST37A	RMB-WST37B	RMB-WST38A	RMB-WST39A	RMB-WST39B	RMB-WST40A
Date:	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011	9/19/2011
Depth (inches):	0-3	0-3	42-48	0-3	0-3	84-96	0-3	0-3	36	0-3
Comments:	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	9.14	10.91	12.52	8.69	12.35	12.59	10.09	10.35	9.89	8.06
Inorganics										
Aluminum	93,000	60,000	68,000 D^{4}	150,000 D^{25}	55,000	70,000 D^{4}	91,000 D^{2}	67,000	77,000 D^{2}	18,000 D^{2}
Antimony	2.5 U	2.2 U	10 UD^{4}	2.5 U	**7.5**	12 UD^{4}	**3.3**	**3.9**	5.4 UD^{2}	3.7 UD^{2}
Arsenic	**16**	**18**	**7.4** D^{4}	**9.3**	**12**	**7.8** D^{4}	**6.0**	**21**	**9.8** D^{2}	**15** D^{2}
Barium	24	46	56 UD^{4}	100	41	79 D^{4}	110	59	76 D^{2}	19 UD^{2}
Beryllium	0.37 U	0.32 U	1.7 UD^{4}	0.37 U	0.39 U	1.9 UD^{4}	0.44 U	0.40 U	0.81 UD^{2}	0.56 UD^{2}
Cadmium	0.37 U	0.32 U	1.7 UD^{4}	0.37 U	**0.50**	1.9 UD^{4}	0.44 U	**0.57**	0.81 UD^{2}	**3.8** D^{2}
Calcium	35,000	13,000	15,000 D^{4}	17,000	20,000	24,000 D^{4}	23,000	26,000	17,000 D^{2}	800 D^{2}
Chromium	**340**	**1,000**	**500** D^{4}	**850**	**630**	**970** D^{4}	**1,800**	**840 J**	**720** D^{2}	**290** D^{2}
Cobalt	2.5 U	2.2 U	11 UD^{4}	2.7	2.9	12 UD^{4}	2.9	4.9	5.4 UD^{2}	3.7 UD^{2}
Copper	16	20	16 D^{4}	14	18	16 D^{4}	22	18	14 D^{2}	30 D^{2}
Iron	170,000 D^{25}	210,000 D^{25}	220,000 D^{4}	110,000 D^{25}	240,000 D^{25}	180,000 D^{4}	67,000 D^{2}	93,000 D^{10}	170,000 D^{25}	490,000 D^{25}
Lead	36	110	54 D^{4}	58	80	67 D^{4}	73	63	59 D^{2}	42 D^{2}
Magnesium	31,000	740	1,000 D^{4}	8,000	680	990 D^{4}	12,000	11,000	6,500 D^{2}	1,800 D^{2}
Manganese	280	93	310 D^{4}	150	370	240 D^{4}	65	75 J	94 D^{2}	11 D^{2}
Nickel	6.8	5.6	11 UD^{4}	13	5.7	12 D^{4}	14	15	14 D^{2}	12 D^{2}
Potassium	590	340	280 UD^{4}	1,100	160	310 UD^{4}	850	1,100	700 D^{2}	93 UD^{2}
Selenium	2.5 U	2.2 U	11 UD^{4}	2.5 U	2.6 U	12 UD^{4}	2.9 U	2.6 U	5.4 UD^{2}	3.7 UD^{2}
Silver	**1.5**	**1.8**	2.8 UD^{4}	0.62 U	**1.5**	3.1 UD^{4}	1.5 UD^{2}	0.66 U	0.67 U	0.93 UD^{2}
Sodium	33,000	26,000	45,000 D^{4}	47,000	20,000	45,000 D^{4}	49,000	47,000	46,000 D^{2}	630 D^{2}
Thallium	2.5 U	2.2 U	11 UD^{4}	2.5 U	2.6 U	12 UD^{4}	2.9 U	2.6 U	5.4 UD^{2}	3.7 UD^{2}
Vanadium	**510**	**1,500**	**610** D^{4}	**450**	**790**	**600** D^{4}	**590**	**770 J**	**500** D^{2}	**1,200** D^{2}
Zinc	15	11	13 D^{4}	2.5 U	18	17 D^{4}	16 D^{2}	8.2	8.6 D^{2}	5.1 D^{2}
Mercury	**0.136**	**0.045**	0.048 U	**0.112**	**0.066**	**0.075**	**0.089**	0.065 U	**0.055**	**0.348**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 22
ADP Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**ADP-WST41**			**ADP-WST42**
Field Sample ID:	**ADP-WST41A**	**ADP-WST41B**	**ADP-WST41C**	**ADP-WST42A**
Date:	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**
Depth (inches):	**0-3**	**48.0**	**48.0**	**0-3**
Comment:	**-**	**-**	**Dup of ADP-WST41B**	**-**
pH (Standard Units)	10.17	6.99	6.83	9.83
Inorganics				
Aluminum	8,600	4,900	3,900	16,000
Antimony	**4.0**	4.3 U	4.6 U	**4.5**
Arsenic	**35**	**13**	**5.6**	**30**
Barium	540	180	110	550
Beryllium	0.82	0.64 U	0.70 U	0.96
Cadmium	**0.41**	0.64 U	0.70 U	**0.57**
Calcium	6,200	4,400	3,300	17,000
Chromium	**23**	**9.5**	**7.3**	**19**
Cobalt	4.8	4.3 U	4.6 U	4.7
Copper	19	13	11	19
Iron	27,000	14,000	5,900	21,000
Lead	3.7	2.4	1.9 U	4.9
Magnesium	2,900	800	530	1,400
Manganese	190	130	70	120
Nickel	20	8.3	6.4	19
Potassium	1,500	620	630	1,800
Selenium	**10**	**10**	**11**	**8.9**
Silver	0.61 U	1.1 U	1.2 U	0.56 U
Sodium	22,000	7,000	8,100	27,000
Thallium	2.4 U	4.3 U	4.6 U	2.2 U
Vanadium	**81**	**31**	**22**	**99**
Zinc	25	14	10	39
Mercury	**0.094**	0.090 U	0.098 U	**0.218**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 23
FBS Waste Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	**FBS-WST43**	**FBS-WST44**	**FBS-WST45**	**FBS-WST46**
Field Sample ID:	**FBS-WST43A**	**FBS-WST44A**	**FBS-WST45A**	**FBS-WST46A**
Date:	**9/21/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**
Depth (inch):	**0.0 - 3.0**	**0.0 - 3.0**	**0.0 - 3.0**	**0.0 - 3.0**
Comment:	**-**	**-**	**-**	**-**
pH (Standard Units)	9.02	10.5	10.93	10.29
Inorganics				
Aluminum	68,000	100,000 D^{25}	76,000	79,000
Antimony	2.2 U	2.2 U	**6.0**	**4.1**
Arsenic	**6.3**	**24**	**12**	**47**
Barium	15	13	12	13
Beryllium	0.34 U	0.33 U	0.35 U	0.35 U
Cadmium	**0.72**	**0.87**	**0.65**	**0.56**
Calcium	42,000	36,000	12,000	9,300
Chromium	**99**	**140**	**240**	**180**
Cobalt	2.2 U	2.2 U	2.3 U	2.4 U
Copper	5.9	14	14	16
Iron	62,000 D^{10}	110,000 D^{25}	220,000 D^{25}	140,000 D^{25}
Lead	9.6	18	30	25
Magnesium	1,500	1200	200	450
Manganese	29	38	48	38
Nickel	2.2 U	4.7	5.2	6.1
Potassium	260	190	140	320
Selenium	2.2 U	**2.4**	**3.2**	**3.1**
Silver	0.56 U	**0.81**	**1.2**	**1.2**
Sodium	5,100	55,000	50,000	110,000 D^{25}
Thallium	2.2 U	2.2 U	2.3 U	2.4 U
Vanadium	**180**	**460**	**580**	**660**
Zinc	140	120	73	200
Mercury	**0.098**	**0.136**	**0.165**	**0.236**

All results are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 24
Surface Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:		ACC-SW01	ACC-SW04	ACC-SW05	ACC-SW06	ACC-SW07	MAN-SW08	MAN-SW09	MAN-SW10	MAN-SW11	MAN-SW12	MAN-SW13
Field Sample ID:		ACC-SW01	ACC-SW04	ACC-SW05	ACC-SW06	ACC-SW07	MAN-SW08	MAN-SW09	MAN-SW10	MAN-SW11	MAN-SW12	MAN-SW13
Date:		9/13/2011	9/13/2011	9/13/2011	9/13/2011	9/13/2011	9/12/2011	9/12/2011	9/12/2011	9/12/2011	9/12/2011	9/12/2011
Comments:	AWQC	-	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	6.5 - 8.5	9.31	8.05	7.55	8.05	8.44	8.06	7.75	7.79	8.30	8.13	8.52
Inorganics												
Aluminum	none	100 U	100 U	100 U	100 U	100 U	5,400	1,700 K	3,600	300	980	1,600
Antimony		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	36	**8.5**	8.0 U	8.0 U	8.0 U	**11**	**13**	**8.3 K**	**14**	**41**	8.0 U	**41**
Barium	200	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Beryllium	100	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	8.8	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	none	400,000	390,000	370,000	390,000	380,000	1,300,000	8,000,000 D^{50}	540,000	390,000	400,000	360,000
Chromium	27.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**22**	**11**	**5.6**	5.0 U	5.0 U	5.0 U
Cobalt	1	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	3.1	10 U	10 U	10 U	10 U	20 U	15	10 U	10 U	10 U	10 U	10 U
Iron	50	140	50 U	63	82	50 U	6,000	1,800 K	3600	80	1,000	540
Lead	8.1	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Magnesium	none	1,400,000 D^{10}	1,400,000 D^{10}	1,300,000 D^{10}	1,400,000 D^{10}	1,300,000 D^{10}	1,300,000	1,300,000 D^{10}	710,000	1,500,000 D^{10}	1,300,000	1,300,000
Manganese	100	41	6.6	96	24	22	270	250	630	71	28	76
Nickel	8.2	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	none	490,000	480,000	470,000	490,000	470,000	470,000	460,000	270,000	540,000	470,000	480,000
Selenium	71	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Silver	none	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	none	9,600,000 D^{50}	9,100,000 D^{50}	9,100,000 D^{50}	10,000,000 D^{50}	8,700,000 D^{50}	10,000,000 D^{50}	9,600,000 D^{50}	540,000	11,000,000 D^{50}	9,700,000 D^{50}	10,000,000 D^{50}
Thallium	17	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	50	20 U	20 U	20 U	20 U	20 U	**33**	20 U	**57**	**28**	20 U	**34**
Zinc	81	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Mercury	0.94	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloride (mg/L)		16,000 D^{500}	16,000 D^{500}	15,000 D^{500}	16,000 D^{500}	14,000 D^{500}	16,000 D^{500}	14,000 D^{500}	8,100 D^{250}	16,000 D^{500}	16,000 D^{500}	17,000 D^{500}

All results are in micrograms per liter (µg/L) unless otherwise noted.
AWQC = Ambient Water Quality Criteria (recommended for protection of aquatic life and human health, saltwater chronic)
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
K = The identification of the analyte is acceptable; the reported value may be biased high.
L = The identification of the analyte is acceptable; the reported value may be biased low.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.
Shading indicates exceedance of AWQC for contaminants of concern.

Table 24
Surface Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:		MAN-SW14	MAN-SW15	MAN-SW16	MAN-SW17	MAN-SW19	MAN-SW20	MAN-SW21	WES-SW22		WES-SW24
Field Sample ID:		MAN-SW14	MAN-SW15	MAN-SW16	MAN-SW17	MAN-SW19	MAN-SW20	MAN-SW21	WES-SW22	WES-SW23	WES-SW24
Date:		9/12/2011	9/12/2011	9/12/2011	9/14/2011	9/15/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011
Comments:	AWQC	-	-	-	-	-	-	-	-	Dup of WES-SW22	-
pH (Standard Units)	6.5 - 8.5	8.67	9.06	8.05	8.65	7.90	7.85	7.62	8.05	8.05	8.10
Inorganics											
Aluminum	none	120	250	300	3,600	500	24,000	100 U	310	350	1,200
Antimony		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	36	**31**	**22**	**14**	**30**	8.0 J	**28**	8.0 U	8.0 U	8.0 U	8.0 U
Barium	200	100 U	100 U	100 U	100 U	100 U	110	100 U	110	110	110
Beryllium	100	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	8.8	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	none	350,000	340,000	280,000	340,000	400,000	430,000	370,000	260,000	260,000	230,000
Chromium	27.4	5.0 U	5.0 U	5.0 U	**9.0**	5.0 U	**71**	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	1	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	3.1	10 U	10 U	10 U	10 U	10 U	52	10 U	10 U	10 U	10 U
Iron	50	50 U	91	200	2400	670	28,000	150	470	550	1800
Lead	8.1	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	16	8.0 U	8.0 U	8.0 U	8.0 U
Magnesium	none	1,400,000 D^{10}	1,300,000 D^{10}	990,000 D^{10}	1,400,000	1,300,000	1,300,000	1,300,000	780,000	780,000	680,000
Manganese	100	45	27	160	950	25	1,900	4,900	830	860	1,400
Nickel	8.2	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	none	520,000	480,000	350,000	550,000	480,000 J	470,000	500,000	340,000	350,000	290,000
Selenium	71	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Silver	none	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	none	10,000,000 D^{50}	9,300,000 D^{50}	6,700,000 D^{10}	11,000,000 D^{50}	10,000,000 D^{50}	9,700,000 D^{50}	10,000,000 D^{50}	6,900,000 D^{25}	6,700,000 D^{25}	5,800,000 D^{25}
Thallium	17	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	50	20	20 U	**21**	**31**	20 U	**110**	20 U	20 U	20 U	20 U
Zinc	81	20 U	20 U	20 U	20 U	20 U	79	20 U	20 U	20 U	20 U
Mercury	0.94	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloride (mg/L)		17,000 D^{500}	14,000 D^{500}	12,000 D^{500}	18,000 D^{500}	16,000 D^{500}	16,000 D^{500}	16,000 D^{500}	4,700 D^{100}	11,000 D^{500}	9,400 D^{500}

All results are in micrograms per liter (µg/L) unless otherwise noted.
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U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
K = The identification of the analyte is acceptable; the reported value may be biased high.
L = The identification of the analyte is acceptable; the reported value may be biased low.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 24
Surface Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:		LCP-SW26	LCP-SW27	LCP-SW28	LCP-SW29	LCP-SW30	LCP-SW31	LCP-SW32	LCP-SW33	UCP-SW34	UCP-SW35	UCP-SW36
Field Sample ID:		LCP-SW26	LCP-SW27	LCP-SW28	LCP-SW29	LCP-SW30	LCP-SW31	LCP-SW32	LCP-SW33	UCP-SW34	UCP-SW35	UCP-SW36
Date:		9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/15/2011
Comments:	AWQC	-	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	6.5 - 8.5	8.18	8.50	8.10	8.75	10.16	8.85	8.05	8.05	8.18	8.17	8.65
Inorganics												
Aluminum	none	100 U	2,900	100	630	5,900	8,000	15,000	14,000	670	21,000	230
Antimony		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	36	**19**	**21**	**20**	**20**	**220**	**27**	**34**	**32**	**10**	**23**	**9.8**
Barium	200	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Beryllium	100	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	8.8	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	none	260,000	280,000	270,000	270,000	24,000	290,000	280,000	310,000	320,000	320,000	330,000
Chromium	27.4	5.0 U	**17**	5.0 U	5.0 U	**43**	**130**	**240**	**180**	**170**	**410**	**130**
Cobalt	1	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	3.1	10 U	10 U	10 U	10 U	10 U	10 U	12	10 U	10 U	11	10 U
Iron	50	50 U	700	50 U	120	2,600	2,000	8,700	6,900	680	20,000	110
Lead	8.1	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Magnesium	none	1,000,000	1,000,000	1,100,000	1,100,000	19,000	1,100,000	1,000,000	1,200,000	1,100,000 D^{25}	1,100,000 D^{25}	1,300,000
Manganese	100	23	59	25	23	44	79	310	280	5.8	73	5.0 U
Nickel	8.2	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	none	360,000	380,000	390,000	410,000	97,000	420,000	380,000	430,000	480,000	460,000	460,000
Selenium	71	20 U	20 U	20 U	20 U	**25**	20 U	20 U	20 U	20 U	20 U	20 U
Silver	none	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	none	7,800,000 D^{50}	7,900,000 D^{50}	8,200,000 D^{50}	8,600,000 D^{50}	3,800,000 D^{50}	8,900,000 D^{50}	7,900,000 D^{50}	9,300,000 D^{50}	9,300,000 D^{25}	9,100,000 D^{25}	10,000,000 D^{50}
Thallium	17	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	50	**130**	**130**	**140**	**130**	**2,200**	**240**	**310**	**310**	**190**	**370**	**190**
Zinc	81	20 U	20 U	20 U	20 U	20 U	20 U	41	20 U	20 U	20 U	20 U
Mercury	0.94	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloride (mg/L)		12,000 D^{500}	12,000 D^{500}	13,000 D^{500}	13,000 D^{500}	3,000 D^{500}	13,000 D^{500}	12,000 D^{500}	12,000 D^{500}	15,000 D^{500}	14,000 D^{250}	16,000 D^{500}

All results are in micrograms per liter (µg/L) unless otherwise noted.
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U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
K = The identification of the analyte is acceptable; the reported value may be biased high.
L = The identification of the analyte is acceptable; the reported value may be biased low.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 24
Surface Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:		UCP-SW37	UCP-SW38	UCP-SW39	UCP-SW40	UCP-SW41	RMS-SW42	RMS-SW43	RMS-SW45	RMS-SW46	ADP-SW48	ADP-SW49
Field Sample ID:		UCP-SW37	UCP-SW38	UCP-SW39	UCP-SW40	UCP-SW41	RMS-SW42	RMS-SW43	RMS-SW45	RMS-SW46	ADP-SW48	ADP-SW49
Date:		9/14/2011	9/15/2011	9/14/2011	9/14/2011	9/14/2011	9/15/2011	9/15/2011	9/14/2011	9/15/2011	9/14/2011	9/14/2011
Comments:	AWQC	-	-	-	-	-	-	Dup of RMS-SW42	-	-	-	-
pH (Standard Units)	6.5 - 8.5	8.79	8.40	8.18	8.27	9.88	10.10	10.10	9.85	9.53	9.61	9.65
Inorganics												
Aluminum	none	4,000	2,700	16,000	2,200	74,000	10,000	10,000	94,000	45,000	2,500	140
Antimony		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	36	**12 J**	**10**	**16**	8.0 U	**27**	**150**	**160**	**36**	**29**	**150**	**150**
Barium	200	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U	100 U
Beryllium	100	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	8.8	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	none	300,000	510,000	410,000	410,000	15,000	830	820	10,000	3,200	14,000	8,300
Chromium	27.4	**780**	**11**	**430**	**150**	**570**	**16,000**	**16,000**	**1,500**	**430**	5.0 U	5.0 U
Cobalt	1	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	3.1	10 U	10 U	10 U	10 U	16	10 U	10 U	15	11	10 U	10 U
Iron	50	7,200	2,700	29,000	4,400	56,000	1,300	1,200	52,000	39,000	1700	50 U
Lead	8.1	8.0 U	8.0 U	9.8	8.0 U	11	8.0 U	8.0 U	11	9.8	8.0 U	8.0 U
Magnesium	none	1,200,000 D^{25}	1,700,000	1,400,000 D^{25}	1,400,000 D^{25}	2,100	500 U	500 U	1,700	1,200	48,000	41,000
Manganese	100	11	5.6	19	5.8	49	5.0 U	5.0 U	45	27	37	5.0 U
Nickel	8.2	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	none	520,000	650,000	510,000	440,000 D^{25}	7,600	42,000	42,000	11,000	6,900	130,000	140,000
Selenium	71	**37**	20 U	20 U	20 U	20 U	**640**	**650**	**55**	20 U	20 U	20 U
Silver	none	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	none	10,000,000 D^{25}	13,000,000 D^{50}	11,000,000 D^{25}	11,000,000 D^{25}	480,000	2,800,000 D^{50}	2,800,000 D^{50}	640,000	460,000	4,200,000 D^{50}	4,100,000 D^{25}
Thallium	17	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	50	**260**	**45**	**260**	**62**	**1,500**	**4,400**	**4,500**	**1,700**	**1,300**	**190**	**190**
Zinc	81	20 U	20 U	20 U	20 U	38	20 U	20 U	25	20 U	20 U	20 U
Mercury	0.94	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloride (mg/L)		14,000 D^{1000}	21,000 D^{500}	18,000 D^{500}	19,000 D^{500}	170 D^{10}	580 D^{100}	600 D^{100}	280 D^{10}	130 D^{50}	4,200 D^{500}	4,400 D^{500}

All results are in micrograms per liter (µg/L) unless otherwise noted.
AWQC = Ambient Water Quality Criteria for saltwater (shading indicates exceedance for contaminants of concern)
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
K = The identification of the analyte is acceptable; the reported value may be biased high.
L = The identification of the analyte is acceptable; the reported value may be biased low.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 24
Surface Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:		ADP-SW50	ADP-SW51	ACC-SW52	BG-SW53	BG-SW54	BG-SW55	BG-SW56	RMA-SW57
Field Sample ID:		ADP-SW50	ADP-SW51	ACC-SW52	BG-SW53	BG-SW54	BG-SW55	BG-SW56	RMA-SW57
Date:		9/14/2011	9/14/2011	9/13/2011	9/13/2011	9/13/2011	9/13/2011	9/13/2011	9/20/2011
Comments:	AWQC	-	-	-	-	-	-	-	-
pH (Standard Units)	6.5 - 8.5	9.61	9.57	8.08	6.98	7.54	7.89	7.54	10.55
Inorganics									
Aluminum	none	150	190	100 U	28,000	1,800	7,400	460	280,000
Antimony		20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	36	**160**	**160**	8.0 U	**85**	8.0 U	4.8 U	8.0 U	**150**
Barium	200	100 U	100 U	100 U	130	100 U	100 U	100 U	250
Beryllium	100	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	8.8	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	none	8,700	8,900	380,000	750,000	300,000	87,000	58,000	16,000
Chromium	27.4	5.0 U	5.0 U	5.0 U	**75**	5.0 U	**7.7**	5.0 U	**2,900**
Cobalt	1	20 U	20 U	20 U	38	20 U	20 U	20 U	20 U
Copper	3.1	10 U	10 U	10 U	260	10 U	23	10 U	61
Iron	50	50 U	54	50 U	51,000	2000	9,100	640	500,000 D^{10}
Lead	8.1	8.0 U	8.0 U	8.0 U	64	8.0 U	8.0 U	8.0 U	67
Magnesium	none	44,000	44,000	1,400,000 D^{10}	1,100,000	910,000	110,000	28,000	4,000
Manganese	100	5.0 U	5.0 U	7.0	2,200	91	220	100	190
Nickel	8.2	20 U	20 U	20 U	44	20 U	20 U	20 U	31
Potassium	none	130,000	130,000	490,000	390,000	320,000	33,000	4,500	22,000
Selenium	71	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**54**
Silver	none	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	none	4,200,000 D^{50}	4,300,000 D^{50}	9,600,000 D^{50}	8,400,000 D^{50}	6,900,000 D^{50}	730,000 D^{2}	98,000	1,200,000 D^{25}
Thallium	17	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	50	**190**	**210**	20 U	**270**	20 U	**51**	**22**	**5,200**
Zinc	81	20 U	20 U	20 U	280	20 U	22	20 U	36
Mercury	0.94	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	**0.710**
Chloride (mg/L)		4,200 D^{500}	4,300 D^{500}	16,000 D^{500}	13,000 D^{500}	12,000 D^{250}	1,000 D^{50}	130 D^{5}	-

All results are in micrograms per liter (µg/L) unless otherwise noted.
AWQC = Ambient Water Quality Criteria for saltwater (shading indicates exceedance for contaminants of concern)
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
K = The identification of the analyte is acceptable; the reported value may be biased high.
L = The identification of the analyte is acceptable; the reported value may be biased low.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.

Table 25
Sediment Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ACC-SW01	ACC-SW04	ACC-SW05	ACC-SW06	ACC-SW07	MAN-SW08	MAN-SW09	MAN-SW10	MAN-SW11	MAN-SW12	MAN-SW13
Field Sample ID:	**ACC-SD01**	**ACC-SD04**	**ACC-SD05**	**ACC-SD06**	**ACC-SD07**	**MAN-SD08**	**MAN-SD09**	**MAN-SD10**	**MAN-SD11**	**MAN-SD12**	**MAN-SD13**
Date:	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	7.71	8.02	7.21	8.08	8.55	8.64	7.65	7.76	7.31	8.65	7.76
Inorganics											
Aluminum	1,100	2,500	25,000	8,700	6,900	1,200	1,800	11,000	2,800	1,100	7,500
Antimony	1.3 U	1.5 U	2 U	**2.4**	1.2 U	1.8 U	0.66 U	1.0 U	0.93 U	1.9 U	3.6 U
Arsenic	**2.3**	**2.2**	**12**	**9.2**	**11**	**3.5**	**3.0**	**4.1**	**4.2**	**3.7**	**4.0**
Barium	9.4	20	25	56	29	13	10	45	15	9.8	18 U
Beryllium	0.20 U	0.22 U	0.30 U	0.18	0.19 U	0.27 U	0.098 U	0.18	0.14 U	0.28 U	0.53 U
Cadmium	0.20 U	0.22 U	0.30 U	**0.48**	0.19 U	0.27 U	0.098 U	0.15 U	0.14 U	0.28 U	0.53 U
Calcium	330,000 D^{10}	330,000 D^{10}	4,800	140,000 D^{10}	280,000 D^{10}	330,000 D^{10}	280,000 D^{10}	270,000 D^{10}	270,000 D^{10}	320,000 D^{10}	280,000 D^{10}
Chromium	**7.0**	**12**	**38**	**51**	**13**	**7.4**	**7.0**	**14**	**8.9**	**6.0**	**20**
Cobalt	1.3 U	1.5 U	7.3	6.0	1.2	1.8 U	0.87	4.7	0.93 U	1.9 U	3.6 U
Copper	3.0	7.9	67	43	16	4	4.7	30	4.6	3.2	9.9
Iron	1,100	3,600	24,000	69,000 D^{10}	5,900	1,900	1,800	11,000	1,700	1,500	3,800
Lead	1.1	2.3	14	190	25	3.1	0.93	2.4	1.4	2.9	4.2
Magnesium	7,300	8,000	13,000	6,300	8,800	5,900	5,700	9,300	9,800	5,900	12,000
Manganese	75	82	120	520	350	96	120	260	25	94	80
Nickel	1.3 U	2.8	16	15	3.7	1.8 U	1.2	8	2.6	1.9 U	4.3
Potassium	350	680	7,600	680	680	400	440	3,600	760	410	1,800
Selenium	1.3 U	1.5 U	**3.4**	1.1 U	1.2 U	1.8 U	0.66 U	1.0 U	0.93 U	1.9 U	3.6 U
Silver	0.33 U	0.36 U	0.5 U	**1.8**	0.31 U	0.45 U	0.16 U	0.26 U	0.23 U	0.47 U	0.89 U
Sodium	4,900	4,400	35,000	4,100	8,600	6,500	5,400	19,000	11,000	6,300	24,000
Thallium	1.3 U	1.5 U	2.0 U	1.1 U	1.2 U	1.8 U	0.66 U	1 U	0.93 U	1.9 U	3.6 U
Vanadium	**8.2**	**16**	**130**	**70**	**18**	**22**	**13**	**60**	**38**	**11**	**47**
Zinc	3.7	12	89	500	170	3.7	3.5	19	4.5	3.4	12
Mercury	0.038 U	0.044 U	0.102 U	0.046 U	**0.062**	0.049 U	0.041 U	0.078 U	0.052 U	0.05 U	0.097 U

All resuts are in miligrams per kilogram (mg/kg) unless otherwise noted.
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Table 25
Sediment Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	MAN-SW14	MAN-SW15	MAN-SW16	MAN-SW17	MAN-SW19	MAN-SW20	MAN-SW21	WES-SW22		WES-SW24	WES-SW25
Field Sample ID:	MAN-SD14	MAN-SD15	MAN-SD16	MAN-SD17	MAN-SD19	MAN-SD20	MAN-SD21	WES-SD22	WES-SD23	WES-SD24	WES-SD25
Date:	9/12/2011	9/12/2011	9/12/2011	9/14/2011	9/15/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/14/2011	9/15/2011
Depth (inches):	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Comments:	-	-	-	-	-	-	-	-	Dup of WES-SD22	-	-
pH (Standard Units)	7.63	7.83	8.38	7.60	7.69	7.64	7.65	7.70	7.96	7.68	8.38
Inorganics											
Aluminum	4,400	3,800	790	9,700 J	7,800	34,000 J	22,000 J	41,000	31,000	25,000	24,000
Antimony	3.6 U	4.7 U	1.7 U	2.2 U	1.3 U	4.9 U	2.2 U	2.1 U	1.9 U	2.3 U	2.3 U
Arsenic	**3.9**	**5.5 J**	**3.0**	**5.3 J**	**18**	**13 J**	**2.8 J**	**8.1**	**6.8**	**4.0**	**5.3**
Barium	18 U	24 U	11	22 J	27	46 J	170 J	89	75	110	260
Beryllium	0.54 U	0.71 U	0.26 U	0.32 U	0.2 U	0.74 U	0.34 U	0.31 U	0.29 U	0.34 U	0.34 U
Cadmium	0.54 U	0.71 U	0.26 U	0.32 U	**0.70**	0.74 U	0.34 U	0.31 U	0.29 U	0.34 U	0.34 U
Calcium	370,000 D[10]	250,000 D[10]	390,000 D[10]	300,000 JD[10]	220,000 D[10]	59,000 J	120,000 JD[10]	160,000 D[10]	180,000 D[10]	87,000	120,000 D[10]
Chromium	**15**	**7.1**	**3.9**	**28 J**	**35**	**140 J**	**27 J**	**160**	**110**	**33**	**74**
Cobalt	3.6 U	4.7 U	1.7 U	2.2 U	5.9	7 J	13 J	3.7	3.4	13	27
Copper	8.6	7.2	3.0	7.2 J	220	45 J	60 J	21	20	60	34
Iron	2,700	2,200	1,000	6,900 J	50,000 D[10]	50,000 J	27,000 J	55,000 D[10]	32,000	26,000	37,000
Lead	4.9	3.8	3.0	4.3 J	150	18 J	4.0 J	12	8.5	5.3	15
Magnesium	15,000	13,000	3,900	12,000 J	6,700	14,000 J	10,000 J	34,000	33,000	15,000	5,200
Manganese	120	100	130	230 J	300	470 J	780 J	340	370	730	1,800
Nickel	3.6	4.7 U	1.7 U	2.2 J	20	11 J	12 J	7.5	6.6	15	18
Potassium	1,800	2,300	420	1,400 J	930	5,600 J	3,900 J	2,600	2,100	3,500	2,900
Selenium	3.6 U	4.7 U	1.7 U	2.2 U	1.3 U	4.9 U	2.2 U	2.1 U	1.9 U	2.3 U	2.3 U
Silver	0.91 U	1.2 U	0.43 U	0.54 U	0.33 U	1.2 U	0.56 U	0.52 U	0.48 U	0.57 U	**0.73**
Sodium	33,000	46,000	7,100	26,000 J	7,500	48,000 J	5,400 J	26,000	20,000	8,100	1,100
Thallium	3.6 U	4.7 U	1.7 U	2.2 U	1.3 U	4.9 U	2.2 U	2.1 U	1.9 U	2.3 U	2.3 U
Vanadium	**43**	**46**	**10**	**69 J**	**59**	**210 J**	**100 J**	**210**	**170**	**110**	**170**
Zinc	14	10	2.5	10 J	460	62 J	73 J	23	23	52	27
Mercury	0.098 U	0.125 U	0.058 U	0.057 U	0.049 U	0.129 U	0.048 U	0.052 U	**0.049**	0.052 U	0.049 U

All resuts are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
D# = Dilution was performed for analysis, # indicates dilution factor.
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Table 25
Sediment Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	LCP-SW26	LCP-SW27	LCP-SW28	LCP-SW29	LCP-SW30	LCP-SW31	LCP-SW32	LCP-SW33	UCP-SW34	UCP-SW35	UCP-SW36
Field Sample ID:	**LCP-SD26**	**LCP-SD27**	**LCP-SD28**	**LCP-SD29**	**LCP-SD30**	**LCP-SD31**	**LCP-SD32**	**LCP-SD33**	**UCP-SD34**	**UCP-SD35**	**UCP-SD36**
Date:	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/15/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	8.09	7.30	8.31	7.88	8.58	7.82	7.38	7.89	8.01	7.69	8.23
Inorganics											
Aluminum	18,000	23,000	9,800	74,000	30,000	95,000 J	37,000 J	91,000 J	71,000	77,000	49,000
Antimony	2.3 U	7.1 U	1.4 U	3.0 U	2.2 U	5.8 U	7.8 U	5.5 U	2.2 U	2.9 U	2.7 U
Arsenic	**12**	**25**	**5.2**	**25**	**33**	**22 J**	**34 J**	**21 J**	**26**	**26**	**19**
Barium	12 U	35 U	25	15 U	50	29 U	45 J	27 U	24	22	120
Beryllium	0.35 U	1.1 U	0.22 U	0.44 U	0.33 U	0.87 U	1.2 U	0.82 U	0.33 U	0.43 U	0.40 U
Cadmium	0.35 U	1.1 U	0.22 U	0.44 U	0.33 U	0.87 U	1.2 U	0.82 U	0.33 U	0.43 U	0.40 U
Calcium	220,000 D^{10}	140,000	320,000 D^{10}	81,000	220,000 D^{10}	24,000 J	36,000 J	20,000 J	39,000	62,000	67,000
Chromium	**45**	**120**	**35**	**66**	**120**	**160 J**	**570 J**	**78 J**	**230**	**390**	**220**
Cobalt	2.3 U	7.1 U	3.3	3 U	3	5.8 U	7.8 U	5.5 U	3.5	2.9 U	7
Copper	13	18	13	25	17	27 J	31 J	18 J	27	27	38
Iron	5,200	6,800	12,000	7,800	8,500	15,000 J	41,000 J	13,000 J	44,000	41,000	45,000
Lead	3.6	3.6	17	3.2	4.7	5.1 J	17 J	2.2 U	12	10	10
Magnesium	32,000	42,000	12,000	110,000	44,000	110,000 J	40,000 J	140,000 J	87,000	100,000	38,000
Manganese	98	230	300	110	250	90 J	230 J	150 J	240	120	270
Nickel	5.1	7.1 U	5.7	7.8	5.4	10 J	14 J	5.5 J	9	9.6	10
Potassium	1,300	4,000	850	1,400	1,500	1,600 J	3,600 J	1,700 J	1,500	1,900	4,300
Selenium	2.3 U	7.1 U	**1.7**	3.0 U	**2.9**	5.8 U	7.8 U	5.5 U	2.2 U	2.9 U	2.7 U
Silver	0.58 U	1.8 U	0.36 U	0.74 U	0.56 U	1.4 U	2.0 U	1.4 U	0.56 U	0.72 U	0.67 U
Sodium	10,000	47,000	5,100	17,000	12,000	28,000 J	56,000 J	34,000 J	13,000	23,000	29,000
Thallium	2.3 U	7.1 U	1.4 U	3 U	2.2 U	5.8 U	7.8 U	5.5 U	2.2 U	2.9 U	2.7 U
Vanadium	**200**	**220**	**110**	**320**	**440**	**590** J	**500** J	**320** J	**340**	**450**	**330**
Zinc	13	21	43	23	19	55 J	190 J	33 J	34	45	28
Mercury	0.072 U	0.214 U	0.052 U	0.079 U	0.067 U	0.136 U	0.199 U	0.135 U	**0.079**	**0.110**	**0.076**

All resuts are in miligrams per kilogram (mg/kg) unless otherwise noted.
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$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
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Table 25
Sediment Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	UCP-SW37	UCP-SW38	UCP-SW39	UCP-SW40	UCP-SW41	RMS-SW42		RMS-SW45	RMS-SW46	RMS-SW47	ADP-SW48
Field Sample ID:	**UCP-SD37**	**UCP-SD38**	**UCP-SD39**	**UCP-SD40**	**UCP-SD41**	**RMS-SD42**	**RMS-SD43**	**RMS-SD45**	**RMS-SD46**	**RMS-SD47**	**ADP-SD48**
Date:	**9/14/2011**	**9/16/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/15/2011**	**9/15/2011**	**9/14/2011**	**9/15/2011**	**9/15/2011**	**9/14/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	**Dup of RMS-SD42**	-	-	-	-
pH (Standard Units)	7.77	7.97	7.99	8.27	10.20	10.48	10.40	10.15	9.68	10.20	8.99
Inorganics											
Aluminum	65,000	86,000	77,000	69,000	85,000	72,000	74,000 D^{10}	71,000	66,000	38,000	28,000
Antimony	2.5 U	2.7 U	2.2 U	2.3 U	2.1 U	1.8 U	1.7 U	2.1 U	2.1 U	1.7 U	2.0 U
Arsenic	**15**	**8.1**	**11**	**9.0**	**12**	**7.8**	**8.8**	**9.1**	**7.0**	**15**	**13**
Barium	52	81	80	78	74	84	75	86	150	73	98
Beryllium	0.38 U	0.40 U	0.33 U	0.34 U	0.32 U	0.28 U	0.26 U	0.31 U	0.32 U	0.26 U	0.29 U
Cadmium	**0.50**	0.40 U	**0.97**	**1.3**	**1.1**	**2.1 J**	**1.9**	**1.9**	**0.68**	**4.4**	0.29 U
Calcium	53,000	15,000	24,000	22,000	29,000	18,000	17,000	38,000	17,000	27,000	140,000 D^{10}
Chromium	**550**	**480**	**490**	**480**	**480**	**480**	**430**	**410**	**360**	**360**	**25**
Cobalt	3.3	2.7 U	2.2 U	2.3 U	2.1 U	1.8 U	1.7 U	2.1 U	2.1 U	2.8	8.9
Copper	26	16	16	13	13	11	11	15	15	14	41
Iron	97,000 D^{10}	180,000 D^{25}	170,000 D^{10}	200,000 D^{10}	170,000 D^{10}	250,000 D^{10}	210,000 D^{10}	250,000 D^{10}	120,000 D^{10}	340,000 D^{10}	22,000
Lead	21	31	32	38	26	40	34	37	23	44	3.2
Magnesium	40,000	7,800	7,700	4,600	3,600	750	690	1,600	2,000	1,100	9,200
Manganese	130	70	93	64	71	51	42	85	52	310	430
Nickel	10	7.9	11	11	10	10 J	9.2	11	9.7	12	10
Potassium	2,600	2,200	2,100	1,500	850	470	450	620	730	220	3,700
Selenium	2.5 U	2.7 U	2.2 U	2.3 U	2.1 U	1.8 U	1.7 U	2.1 U	2.1 U	**2.7**	2.0 U
Silver	0.63 U	**1.1**	0.55 U	0.57 U	0.53 U	0.46 U	0.43 U	0.52 U	0.53 U	0.44 U	0.49 U
Sodium	36,000	60,000	53,000	41,000	42,000	33,000	30,000	27,000	30,000	16,000	3,900
Thallium	2.5 U	2.7 U	2.2 U	2.3 U	2.1 U	1.8 U	1.7 U	2.1 U	2.1 U	1.7 U	2.0 U
Vanadium	**420**	**530**	**540**	**640**	**540**	**700**	**620**	**730**	**370**	**1,100**	**110**
Zinc	41	29	34	31	39	12	10	21	35	19	33
Mercury	**0.183**	**0.259**	**0.237**	**0.314**	**0.271**	**0.320**	**0.338**	**0.264**	**0.237**	**0.140**	0.054 U

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Table 25
Sediment Sampling Results - pH and Inorganics
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ADP-SW49	ADP-SW50	ADP-SW51	ACC-SW52	BG-SW53	BG-SW54	BG-SW55	BG-SW56
Field Sample ID:	ADP-SD49	ADP-SD50	ADP-SD51	ACC-SD52	BG-SD53	BG-SD54	BG-SD55	BG-SD56
Date:	9/14/2011	9/14/2011	9/14/2011	9/13/2011	9/13/2011	9/13/2011	9/13/2011	9/13/2011
Depth (inches):	0-6	0-6	0-6	0-6	0-6	0-6	0-6	0-6
Comments:	-	-	-	-	-	-	-	-
pH (Standard Units)	9.21	9.50	9.07	8.54	7.56	7.86	8.12	8.20
Inorganics								
Aluminum	31,000	9,200	7,600	3,500	5,300	4,500	17,000	15,000
Antimony	3.7 U	3.0 U	3.0 U	0.85 U	1.3 U	1.2 U	1.8 U	2.2 U
Arsenic	**12**	**21**	**8.5**	**1.2**	**5.5**	**2.5**	**2.3**	**1.4**
Barium	410	330	370	16	65	14	94	65
Beryllium	1.2	0.72	0.87	0.13 U	0.19 U	0.19 U	0.27 U	0.32 U
Cadmium	0.55 U	**0.56**	0.45 U	0.13 U	0.19 U	0.19 U	0.27 U	0.32 U
Calcium	55,000	45,000	9,200	280,000 D^{10}	70,000 D^{10}	29,000	16,000	26,000
Chromium	**96**	**22**	**16**	**10**	**14**	**9.6**	**22**	**27**
Cobalt	6.2	4.3	4.6	1.5	6.8	4.0	13	11
Copper	29	23	16	14	25	9.5	53	45
Iron	33,000	19,000	12,000	4,500	20,000	8,000	22,000	24,000
Lead	35	5.4	6.7	6.0	6.2	3.5	6.3	5.0
Magnesium	17,000	7,000	6,200	20,000	3,300	2,800	6,200	5,700
Manganese	230	120	130	100	340	120	330	470
Nickel	22	20	18	3.9	11	3.1	11	10
Potassium	5,000	1,200	1,200	630	680	740	2,500	1,800
Selenium	3.7 U	3.0 U	3.0 U	0.85 U	1.3 U	1.2 U	1.8 U	2.2 U
Silver	0.91 U	0.76 U	0.75 U	0.21 U	0.31 U	0.31 U	0.46 U	0.54 U
Sodium	19,000	11,000	8,800	4,100	3,300	4,300	2,800	1,400
Thallium	3.7 U	3.0 U	3.0 U	0.85 U	1.3 U	1.2 U	1.8 U	2.2 U
Vanadium	**170**	**99**	**62**	**18**	**50**	**45**	**88**	**110**
Zinc	62	32	42	17	24	16	51	58
Mercury	**0.461**	**0.095**	**0.233**	0.041 U	0.052 U	0.050 U	0.044 U	0.055 U

All resuts are in miligrams per kilogram (mg/kg) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detect above the Reporting Limit are in **BOLD**.

Table 26
Sediment Sampling Results - TOC and Grain Size
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ACC-SW01	ACC-SW04	ACC-SW05	ACC-SW06	ACC-SW07	MAN-SW08	MAN-SW09	MAN-SW10	MAN-SW11	MAN-SW12	MAN-SW13	MAN-SW14
Field Sample ID:	**ACC-SD01**	**ACC-SD04**	**ACC-SD05**	**ACC-SD06**	**ACC-SD07**	**MAN-SD08**	**MAN-SD09**	**MAN-SD10**	**MAN-SD11**	**MAN-SD12**	**MAN-SD13**	**MAN-SD14**
Date:	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**	**9/12/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	69,000	67,000	170,000	31,000	84,000	50,000	66,000	43,000	99,000	24,000	70,000	60,000
Grain Size												
% Gravel & Larger >2.0 mm	51	30	0.1 U	34	26	30	0.1 U	2.3	92 J	4.4	55	7.1
% Very Coarse Sand >1 - 2 mm	16	11	5.8	20	4.4	10	5.7	4.2	4.4 J	13	21	13
% Coarse Sand >0.42 - 2.0 mm	15	16	4.7	32	4.4	19	24	4.8	1.8 J	32	5.4	8.2
% Medium Sand >.25 - .5 mm	12	16	5.6	9.6	8.6	23	47	6.3	0.9 J	23	2.8	22
% Fine Sand >.125 - .25 mm	3.6	7.3	5.3	0.8	18	13	20	8.2	0.4 J	19	1.6	29
% Very Fine Sand >.0625 - .125 mm	0.4	3	2.4	0.2	19	1.3	1.1	7.2	0.2 J	2.2	0.5	3.1
% Silt	NR	8.2	39	NR	13	2	NR	38	NR	NR	7.4	7.8
% Clay & Colloids	NR	8.3	37	NR	6.4	2.2	NR	29	NR	NR	6.2	10
%Silt + % Clay/Colloids (%Total Fines)	1.8	16.5	76	2.4	19.4	4.2	3.2	67	0.1 J	6.2	13.6	17.8

TOC results are in milligrams per kilogram (mg/kg)
Grain-size results are in % by weight.
NR = The silt, clay & colloids fractions were too small to report separately, therefore, only the total silt/clay/colloids fraction was reported for these samples.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.

Table 26
Sediment Sampling Results - TOC and Grain Size
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	MAN-SW15	MAN-SW16	MAN-SW17	MAN-SW19	MAN-SW20	MAN-SW21	WES-SW22	WES-SW23	WES-SW24	WES-SW25	LCP-SW26
Field Sample ID:	**MAN-SD15**	**MAN-SD16**	**MAN-SD17**	**MAN-SD19**	**MAN-SD20**	**MAN-SD21**	**WES-SD22**	**WES-SD23**	**WES-SD24**	**WES-SD25**	**LCP-SD26**
Date:	**9/12/2011**	**9/12/2011**	**9/14/2011**	**9/15/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/15/2011**	**9/14/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	-	**Dup of WES-SD22**	-	-	-
Total Organic Carbon (TOC)	62,000	65,000	82,000 J	41,000	78,000 J	48,000 J	24,000	29,000	35,000	22,000	54,000
Grain Size											
% Gravel & Larger >2.0 mm	12	8.4	37	17	2.5	8.1	21	10	20	3.8	21
% Very Coarse Sand >1 - 2 mm	37	22	15	11	12	4.5	5.9	5.3	6.8	7.4	8.1
% Coarse Sand >0.42 - 2.0 mm	21	45	9.5	16	4.7	3.3	7.1	8.6	5.6	20	6.7
% Medium Sand >.25 - .5 mm	6.1	14	6.3	14	3.5	4.4	6.7	7.7	6.1	25	9.3
% Fine Sand >.125 - .25 mm	2.6	1.2	3.9	9.2	3.3	7	5.5	6.2	7.9	16	13
% Very Fine Sand >.0625 - .125 mm	1.3	0.2	4.1	6.3	2.8	6	3.6	4.4	6.5	6	8.4
% Silt	NR	3.9	9.9	20	51	30	33	36	30	12	18
% Clay & Colloids	NR	5	14	6.2	20	37	17	21	17	10	16
%Silt + % Clay/Colloids (%Total Fines)	20	8.9	23.9	26.2	71	67	50	57	47	22	34

TOC results are in milligrams per kilogram (mg/kg)
Grain-size results are in % by weight.
NR = The silt, clay & colloids fractions were too small to report separately, therefore, only the total silt/clay/colloids fraction was reported for these samples.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.

Table 26
Sediment Sampling Results - TOC and Grain Size
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	LCP-SW27	LCP-SW28	LCP-SW29	LCP-SW30	LCP-SW31	LCP-SW32	LCP-SW33	UCP-SW34	UCP-SW35	UCP-SW36	UCP-SW37	UCP-SW38
Field Sample ID:	**LCP-SD27**	**LCP-SD28**	**LCP-SD29**	**LCP-SD30**	**LCP-SD31**	**LCP-SD32**	**LCP-SD33**	**UCP-SD34**	**UCP-SD35**	**UCP-SD36**	**UCP-SD37**	**UCP-SD38**
Date:	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/15/2011**	**9/14/2011**	**9/16/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (TOC)	53,000	71,000	14,000	49,000	32,000 J	92,000 J	12,000 J	9,100	16,000	18,000	11,000	9,700
Grain Size												
% Gravel & Larger >2.0 mm	0.1 U	39	12	15	3.7 J	9.2	12 J	13	3.1	9.8	2	0.1 U
% Very Coarse Sand >1 - 2 mm	27	19	11	11	11 J	28	36 J	15	7.5	2.7	2	0.9
% Coarse Sand >0.42 - 2.0 mm	7.1	17	16	10	27 J	7.2	22 J	18	22	4.4	4.8	1.1
% Medium Sand >.25 - .5 mm	3.3	14	18	14	27 J	4.1	11 J	14	29	8.3	6.8	2.6
% Fine Sand >.125 - .25 mm	2.7	4.9	16	22	19 J	2.8	6.6 J	8.9	13	12	6.5	5.2
% Very Fine Sand >.0625 - .125 mm	3.5	0.6	6.5	8.7	10 J	1.7	2.8 J	7.2	5	8.8	4.8	2.7
% Silt	35	0.2	16	9.9	NR	24	NR	15	9.1	40	39	52
% Clay & Colloids	21	4.3	5.3	9	NR	24	NR	9.5	11	14	34	35
%Silt + % Clay/Colloids (%Total Fines)	56	4.5	21.3	18.9	2.7 J	48	10 J	24.5	20.1	54	73	87

TOC results are in milligrams per kilogram (mg/kg)
Grain-size results are in % by weight.
NR = The silt, clay & colloids fractions were too small to report separately, therefore, only the total silt/clay/colloids fraction was reported for these samples.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.

Table 26
Sediment Sampling Results - TOC and Grain Size
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	UCP-SW39	UCP-SW40	UCP-SW41	RMS-SW42	RMS-SW42	RMS-SW45	RMS-SW46	RMS-SW47	ADP-SW48	ADP-SW49	ADP-SW50
Field Sample ID:	**UCP-SD39**	**UCP-SD40**	**UCP-SD41**	**RMS-SD42**	**RMS-SD43**	**RMS-SD45**	**RMS-SD46**	**RMS-SD47**	**ADP-SD48**	**ADP-SD49**	**ADP-SD50**
Date:	**9/14/2011**	**9/14/2011**	**9/14/2011**	**9/15/2011**	**9/15/2011**	**9/14/2011**	**9/15/2011**	**9/15/2011**	**9/14/2011**	**9/14/2011**	**9/14/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	**Dup of RMS-**	-	-	-	-	-	-
Total Organic Carbon (TOC)	14,000	15,000	18,000	28,000	30,000	32,000	24,000	3,600	11,000	290,000	260,000
Grain Size											
% Gravel & Larger >2.0 mm	0.1	0.1 U	0.9	0.1 U	0.1	1.1	9.4	0.4	34	33	15
% Very Coarse Sand >1 - 2 mm	1	0.1 U	1	0.1 U	0.1 U	0.6	2.5	0.6	11	6.3	3.5
% Coarse Sand >0.42 - 2.0 mm	1.4	0.3	2	0.3	0.3	0.7	4.3	3.8	6.3	5.2	6.3
% Medium Sand >.25 - .5 mm	4	1.7	2.8	1.7	1.6	2.3	5.5	21	5	10	21
% Fine Sand >.125 - .25 mm	5.4	6.3	2.6	6.5	6.3	6.1	5.6	32	5.1	13	15
% Very Fine Sand >.0625 - .125 mm	3.2	11	2.4	9.1	8.5	12	5.3	11	3.9	9.2	7.2
% Silt	62	56	59	65	66	63	45	23	14	18	28
% Clay & Colloids	23	25	29	18	17	14	22	8.1	20	4.8	4.7
%Silt + % Clay/Colloids (%Total Fines)	85	81	88	83	83	77	67	31.1	34	22.8	32.7

TOC results are in milligrams per kilogram (mg/kg)
Grain-size results are in % by weight.
NR = The silt, clay & colloids fractions were too small to report separately, therefore, only the total silt/clay/colloids fraction was reported for these samples.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.

Table 26
Sediment Sampling Results - TOC and Grain Size
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	ADP-SW51	ACC-SW52	BG-SW53	BG-SW54	BG-SW55	BG-SW56
Field Sample ID:	**ADP-SD51**	**ACC-SD52**	**BG-SD53**	**BG-SD54**	**BG-SD55**	**BG-SD56**
Date:	**9/14/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**	**9/13/2011**
Depth (inches):	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**	**0-6**
Comments:	-	-	-	-	-	-
Total Organic Carbon (TOC)	290,000	63,000	7,600	1,000 U	18,000	5,300
Grain Size						
% Gravel & Larger >2.0 mm	0.4	24	13	14	9.1	8.1
% Very Coarse Sand >1 - 2 mm	1	22	26	16	5.3	5.1
% Coarse Sand >0.42 - 2.0 mm	2.6	15	28	31	5.8	10
% Medium Sand >.25 - .5 mm	12	11	14	21	9	16
% Fine Sand >.125 - .25 mm	14	7.5	13	15	13	14
% Very Fine Sand >.0625 - .125 mm	12	4.7	2.8	1.8	8.7	8.2
% Silt	48	9.7	NR	2	28	22
% Clay & Colloids	9.2	5.9	NR	0.1 U	21	16
%Silt + % Clay/Colloids (%Total Fines)	57.2	15.6	3.4	2.1	49	38

TOC results are in milligrams per kilogram (mg/kg)
Grain-size results are in % by weight.
NR = The silt, clay & colloids fractions were too small to report separately, therefore, only the total silt/clay/colloids fraction was reported for these samples.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.

Table 27
Ground Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	VW37		G-9		VW16		G-11		GM-13D		GM-22	
Field Sample ID:	**SCA-GW01**	**SCA-GW01F**	**SCA-GW02**	**SCA-GW02F**	**SCA-GW03**	**SCA-GW03F**	**SCA-GW04**	**SCA-GW04F**	**SCA-GW05**	**SCA-GW05F**	**SCA-GW06**	**SCA-GW06F**
Date:	**9/20/2011**	**9/20/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/19/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**	**9/21/2011**
Depth:	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Comments:	-	-	-	-	-	-	-	-	-	-	-	-
pH (Standard Units)	7.51	-	7.27	-	6.72	-	7.76	-	9.28	-	12.78	-
Inorganics												
Aluminum	1,000	100 U	150	100 U	100 U	100 U	100 U	100 U	100 U	100 U	320,000	330,000
Antimony	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	**180**	**180**	**2,700**	**2,800**
Barium	100 U	100 U	100 U	100 U	140	130	100 U	100 U	100 U	100 U	100 U	100 U
Beryllium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	49,000	42,000	74,000	69,000	78,000	77,000	93,000	92,000	6,900	6,700	500	500 U
Chromium	**5.1**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**1,400**	**1,300**
Cobalt	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Iron	1,100	50 U	290	50 U	690	710	50 U	50 U	50 U	50 U	170	50 U
Lead	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Magnesium	30,000	30,000	75,000	77,000	57,000	54,000	250,000	260,000	49,000	48,000	500 U	500 U
Manganese	29	5.0 U	16	5.0 U	640	630	35	37	20	22	5.0 U	5.0 U
Nickel	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	13,000	13,000	30,000	30,000	18,000	17,000	120,000	120,000	28,000	28,000	79,000	78,000
Selenium	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**350**	**360**
Silver	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	330,000	330,000	120,000	110,000	490,000	480,000	3,900,000 D^{25}	3,900,000 D^{25}	2,300,000 D^{25}	2,300,000 D^{25}	5,900,000 D^{25}	6,100,000 D^{25}
Thallium	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	**28**	**27**	**18,000**	**18,000**
Zinc	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Mercury	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	**0.501**	**0.468**
Chloride (mg/L)	280 D^{20}	-	350 D^{10}	-	770 D^{20}	-	5,800 D^{250}	-	2,300 D^{500}	-	1,400 D^{125}	-

All results are in micrograms per liter (ug/L) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.
Maximum Contaminant Level (MCL) and Secondary MCL exceeda

Table 27
Ground Water Sampling Results - pH, Inorganics, and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	VW25		GM-14		GM-19		GM-18			
Field Sample ID:	**SCA-GW07**	**SCA-GW07F**	**SCA-GW08**	**SCA-GW08F**	**SCA-GW09**	**SCA-GW09F**	**SCA-GW10**	**SCA-GW10F**	**SCA-GW11**	**SCA-GW11F**
Date:	**9/19/2011**	**9/19/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**	**9/20/2011**
Depth:	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Comments:	-	-	-	-	-	-	-	-	**Dup of SCA-GW10**	**Dup of SCA-GW10F**
pH (Standard Units)	7.19	-	7.40	-	7.55	-	7.98	-	7.98	-
Inorganics										
Aluminum	100 U	100 U	100 U	100 U	100 U	100 U	340	100 U	350	100 U
Antimony	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Arsenic	**17 J**	**8.3 J**	8.0 U	8.0 U	8.0 U	8.0 U	**110**	**120**	**110**	**130**
Barium	100 U	100 U	360	360	100 U	100 U	100 U	100 U	100 U	100 U
Beryllium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	66,000	77,000	160,000	170,000	340,000	340,000	1,500	670	1,600	770
Chromium	**41**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Copper	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Iron	940	50 U	1,500	1,100	61	50 U	230	50 U	240	50 U
Lead	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Magnesium	51,000	58,000	170,000	180,000	1,200,000 D^{25}	1,200,000 D^{25}	13,000	13,000	13,000	14,000
Manganese	35	50	350	340	5,400	5,300	5.0 U	5.0 U	5.0 U	5.3
Nickel	170	170	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Potassium	17,000	18,000	24,000	24,000	400,000 D^{25}	400,000 D^{25}	69,000	70,000	70,000	76,000
Selenium	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Silver	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	1,700,000 D^{25}	1,700,000 D^{25}	1,200,000 D^{25}	1,300,000 D^{25}	10,000,000 D^{25}	9,900,000 D^{25}	3,500,000 D^{25}	3,500,000 D^{25}	3,600,000 D^{25}	3,700,000 D^{25}
Thallium	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Vanadium	**77**	**42**	20 U	20 U	20 U	20 U	**38**	**35**	**39**	**37**
Zinc	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Mercury	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloride (mg/L)	660 D^{100}	-	770 D^{100}	-	15,000 D^{500}	-	2,200 D^{500}	-	2,500 D^{250}	-

All results are in micrograms per liter (ug/L) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.
J = The identification of the analyte is acceptable; the reported value is an estimate.
$D^{\#}$ = Dilution was performed for analysis, # indicates dilution factor.
Contaminants of concern detected above the Reporting Limit are in **BOLD**.
Maximum Contaminant Level (MCL) and Secondary MCL exceedances

Table 28
Rinsate Blank Sampling Results - Inorganics and Chloride
St. Croix Alumina (Renaissance Park) Site - September 2011

Location ID:	WST- RIN01	WST- RIN02	MW-RIN03	WST-RIN05	SD-RIN06
Weston Sample ID:	WST- RIN01	WST- RIN02	MW-RIN03	WST-RIN05	SD-RIN06
Date:	09/15/2011	9/16/2011	9/19/2011	9/19/2011	9/12/2011
Comments:	hand auger	hand auger	bladder pump	hand auger	hand auger
Inorganics					
Aluminum	100 U	100 U	100 U	100 U	100 U
Antimony	20 U	20 U	20 U	20 U	20 U
Arsenic	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Barium	100 U	100 U	100 U	100 U	100 U
Beryllium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Cadmium	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Calcium	500 U	500 U	500 U	500 U	500 U
Chromium	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	20 U	20 U	20 U	20 U	20 U
Copper	10 U	10 U	10 U	10 U	10 U
Iron	50 U	50 U	50 U	50 U	50 U
Lead	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
Magnesium	500 U	500 U	500 U	500 U	500 U
Manganese	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Nickel	20 U	20 U	20 U	20 U	20 U
Potassium	500 U	500 U	1000 U	1000 U	550
Selenium	20 U	20 U	20 U	20 U	20 U
Silver	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Sodium	1000 U	1000 U	1000 U	1000 U	1000 U
Thallium	20 U	20 U	20 U	20 U	20 U
Vanadium	20 U	20 U	20 U	20 U	20 U
Zinc	20 U	20 U	20 U	20 U	20 U
Mercury	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Chloride (mg/L)	-	-	1.0 U	-	-

All results are in micrograms per liter (µg/L) unless otherwise noted.
U = The analyte was not detected at or above the Reporting Limit.

Table 29: Background Gamma Count Rate Measurements Collected Northeast of the Site				
Location	**Measurement on Contact (cpm)**	**Surface**	**Latitude**	**Longitude**
SCRMBKG_01	4878	Soil	17.71440000	-64.77426167
SCRMBKG_02	3977	Soil	17.71439000	-64.77408333
SCRMBKG_03	5982	Soil	17.71460500	-64.77392833
SCRMBKG_04	5293	Soil	17.71502667	-64.77309500
SCRMBKG_05	5633	Soil	17.71502667	-64.77309500
SCRMBKG_05	5750	Soil	17.71502667	-64.77309500
SCRMBKG_06	5615	Soil	17.71508333	-64.77284333
SCRMBKG_07	5829	Soil	17.71514167	-64.77260500
SCRMBKG_08	5053	Soil	17.71477833	-64.77264667
SCRMBKG_09	4669	Soil	17.71473500	-64.77280667
SCRMBKG_10	4983	Soil	17.71459000	-64.77332167
SCRMBKG_11	4663	Soil	17.71459000	-64.77332167

Minimum =	**3977**
Maximum =	**5982**
Median =	**5173**
Arithmeic Mean =	**5194**
One Sigma =	**597**
Two Sigma =	**1193**

Table 30: Background Exposure Rate Measurements Collected Northeast of the Site				
Location	**Measurement on Contact (μR/h)**	**Surface**	**Latitude**	**Longitude**
BG-S07	5	Soil	17.7144667	-64.775165
BG-S08	4	Soil	17.715925	-64.7746517
BG-S09	3	Soil	17.7175117	-64.7733317
BG-S10	3	Soil	-----	-----
BG-S11	3	Soil	17.7165767	-64.7699733
BG-S12	5	Soil	17.7148433	-64.7721033
BG-S13	3	Soil	17.7139583	-64.77364
BG-S14	3	Soil	17.7141183	-64.7701833
BG-S15	3	Soil	17.7119333	-64.7696067

Minimum =	**3**
Maximum =	**5**
Median =	**3**
Arithmetic Mean =	**3.6**
One Sigma =	**0.9**
Two Sigma =	**1.8**

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311359.4356	1959487.484	-64.77886167	17.71447167	2740	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2780	cpm	soil	0.25
0*	0*	0*	0*	2810	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2840	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2830	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2770	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2850	cpm	soil	0.25
0*	0*	0*	0*	2850	cpm	soil	0.25
311359.2571	1959487.301	-64.77886333	17.71447	2780	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
311359.2571	1959487.301	-64.77886333	17.71447	2850	cpm	soil	0.25
311358.5499	1959487.308	-64.77887	17.71447	2800	cpm	soil	0.25
0*	0*	0*	0*	2750	cpm	soil	0.25
311358.5499	1959487.308	-64.77887	17.71447	2840	cpm	soil	0.25
311358.0196	1959487.313	-64.778875	17.71447	2840	cpm	soil	0.25
311356.0714	1959486.962	-64.77889333	17.71446667	2810	cpm	soil	0.25
311353.9464	1959486.614	-64.77891333	17.71446333	2830	cpm	soil	0.25
311352.1751	1959486.261	-64.77893	17.71446	2710	cpm	soil	0.25
311350.4037	1959485.909	-64.77894667	17.71445667	2550	cpm	soil	0.25
311348.4555	1959485.559	-64.778965	17.71445333	2480	cpm	soil	0.25
311346.3323	1959485.394	-64.778985	17.71445167	2360	cpm	soil	0.25
311344.3841	1959485.044	-64.77900333	17.71444833	2300	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311338.7182	1959484.175	-64.77905667	17.71444	2050	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
311334.4613	1959482.739	-64.77909667	17.71442667	1960	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
311319.9279	1959479.003	-64.77923333	17.71439167	2070	cpm	soil	0.25
311317.9763	1959478.283	-64.77925167	17.714385	2050	cpm	soil	0.25
311315.671	1959477.567	-64.77927333	17.71437833	2070	cpm	soil	0.25
311314.9621	1959477.389	-64.77928	17.71437667	2110	cpm	soil	0.25
311312.1265	1959476.678	-64.77930667	17.71437	2190	cpm	soil	0.25
311310.0016	1959476.329	-64.77932667	17.71436667	2270	cpm	soil	0.25
311308.2267	1959475.608	-64.77934333	17.71436	2360	cpm	soil	0.25
311306.2785	1959475.258	-64.77936167	17.71435667	2370	cpm	soil	0.25
311304.6822	1959474.719	-64.77937667	17.71435167	2510	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311303.2591	1959473.81	-64.77939	17.71434333	2480	cpm	soil	0.25
0*	0*	0*	0*	2530	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
311297.5827	1959471.835	-64.77944333	17.714325	2700	cpm	soil	0.25
311295.6345	1959471.484	-64.77946167	17.71432167	2750	cpm	soil	0.25
311293.8614	1959470.947	-64.77947833	17.71431667	2780	cpm	soil	0.25
0*	0*	0*	0*	2730	cpm	soil	0.25
311290.3134	1959469.69	-64.77951167	17.714305	2680	cpm	soil	0.25
311288.1867	1959469.156	-64.77953167	17.7143	2730	cpm	soil	0.25
0*	0*	0*	0*	2770	cpm	soil	0.25
0*	0*	0*	0*	2740	cpm	soil	0.25
0*	0*	0*	0*	2860	cpm	soil	0.25
311280.3783	1959466.094	-64.779605	17.71427167	2820	cpm	soil	0.25
311278.4284	1959465.559	-64.77962333	17.71426667	2930	cpm	soil	0.25
311276.4785	1959465.024	-64.77964167	17.71426167	2920	cpm	soil	0.25
311274.7036	1959464.303	-64.77965833	17.714255	2960	cpm	soil	0.25
311272.7537	1959463.768	-64.77967667	17.71425	3010	cpm	soil	0.25
0*	0*	0*	0*	3100	cpm	soil	0.25
311268.8538	1959462.698	-64.77971333	17.71424	3180	cpm	soil	0.25
311265.8414	1959461.988	-64.77974167	17.71423333	3170	cpm	soil	0.25
0*	0*	0*	0*	3190	cpm	soil	0.25
0*	0*	0*	0*	3190	cpm	soil	0.25
311259.9882	1959460.015	-64.77979667	17.714215	3090	cpm	soil	0.25
311258.0365	1959459.295	-64.779815	17.71420833	2950	cpm	soil	0.25
311257.1474	1959458.75	-64.77982333	17.71420333	2960	cpm	soil	0.25
311255.1957	1959458.031	-64.77984167	17.71419667	2920	cpm	soil	0.25
0*	0*	0*	0*	2930	cpm	soil	0.25
311250.4119	1959456.969	-64.77988667	17.71418667	2760	cpm	soil	0.25
0*	0*	0*	0*	2700	cpm	soil	0.25
311244.7372	1959455.178	-64.77994	17.71417	2640	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
311241.5463	1959454.286	-64.77997	17.71416167	2540	cpm	soil	0.25
0*	0*	0*	0*	2430	cpm	soil	0.25
311237.4696	1959453.217	-64.78000833	17.71415167	2360	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
311233.3912	1959451.965	-64.78004667	17.71414	2250	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
311227.0041	1959449.627	-64.78010667	17.71411833	2210	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311222.9293	1959448.743	-64.780145	17.71411	2150	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311218.8544	1959447.859	-64.78018333	17.71410167	2150	cpm	soil	0.25
311216.9044	1959447.324	-64.78020167	17.71409667	2110	cpm	soil	0.25
311216.017	1959446.963	-64.78021	17.71409333	2120	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311210.3336	1959444.25	-64.78026333	17.71406833	2080	cpm	soil	0.25
311209.2693	1959443.891	-64.78027333	17.714065	2030	cpm	soil	0.25
311208.3819	1959443.531	-64.78028167	17.71406167	2010	cpm	soil	0.25
311206.2517	1959442.628	-64.78030167	17.71405333	1970	cpm	soil	0.25
311204.2983	1959441.724	-64.78032	17.714045	1980	cpm	soil	0.25
311202.7002	1959441.002	-64.780335	17.71403833	1990	cpm	soil	0.25
311201.4557	1959440.275	-64.78034667	17.71403167	1990	cpm	soil	0.25
311200.5683	1959439.915	-64.780355	17.71402833	2030	cpm	soil	0.25
311200.5683	1959439.915	-64.780355	17.71402833	2060	cpm	soil	0.25
311200.5683	1959439.915	-64.780355	17.71402833	2070	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311197.1901	1959437.918	-64.78038667	17.71401	2070	cpm	soil	0.25
0*	0*	0*	0*	2080	cpm	soil	0.25
311193.2815	1959435.925	-64.78042333	17.71399167	2060	cpm	soil	0.25
311191.6834	1959435.203	-64.78043833	17.713985	2060	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311188.1319	1959433.576	-64.78047167	17.71397	2130	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311185.1143	1959432.313	-64.7805	17.71395833	2290	cpm	soil	0.25
311182.2734	1959431.049	-64.78052667	17.71394667	2260	cpm	soil	0.25
311180.1432	1959430.146	-64.78054667	17.71393833	2400	cpm	soil	0.25
311179.0755	1959429.418	-64.78055667	17.71393167	2410	cpm	soil	0.25
311176.0561	1959427.971	-64.780585	17.71391833	2480	cpm	soil	0.25
311175.3437	1959427.425	-64.78059167	17.71391333	2480	cpm	soil	0.25
311173.5653	1959426.334	-64.78060833	17.71390333	2460	cpm	soil	0.25
311171.0746	1959424.698	-64.78063167	17.71388833	2490	cpm	soil	0.25
311170.1854	1959424.153	-64.78064	17.71388333	2470	cpm	soil	0.25
311167.166	1959422.705	-64.78066833	17.71387	2440	cpm	soil	0.25
311165.5679	1959421.983	-64.78068333	17.71386333	2360	cpm	soil	0.25
311164.8572	1959421.62	-64.78069	17.71386	2250	cpm	soil	0.25
311160.231	1959418.528	-64.78073333	17.71383167	2210	cpm	soil	0.25
311158.6277	1959417.252	-64.78074833	17.71382	2150	cpm	soil	0.25
311157.7385	1959416.707	-64.78075667	17.713815	2050	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
311151.1537	1959412.157	-64.78081833	17.71377333	1900	cpm	soil	0.25
311149.5538	1959411.25	-64.78083333	17.713765	1920	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311149.5538	1959411.25	-64.78083333	17.713765	1890	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
311148.8432	1959410.888	-64.78084	17.71376167	1790	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
311146.3524	1959409.251	-64.78086333	17.71374667	1850	cpm	soil	0.25
311143.8616	1959407.614	-64.78088667	17.71373167	1830	cpm	soil	0.25
311142.078	1959405.971	-64.78090333	17.71371667	1790	cpm	soil	0.25
311141.1854	1959405.057	-64.78091167	17.71370833	1810	cpm	soil	0.25
311139.5785	1959403.412	-64.78092667	17.71369333	1800	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311135.1186	1959399.211	-64.78096833	17.713655	1850	cpm	soil	0.25
311133.5118	1959397.566	-64.78098333	17.71364	1920	cpm	soil	0.25
311131.7282	1959395.922	-64.781	17.713625	1960	cpm	soil	0.25
311130.3017	1959394.645	-64.78101333	17.71361333	2040	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
311126.9182	1959392.094	-64.781045	17.71359	2160	cpm	soil	0.25
311125.3131	1959390.633	-64.78106	17.71357667	2200	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
0*	0*	0*	0*	2360	cpm	soil	0.25
311118.7161	1959384.792	-64.78112167	17.71352333	2360	cpm	soil	0.25
311116.9342	1959383.333	-64.78113833	17.71351	2440	cpm	soil	0.25
311115.1506	1959381.69	-64.781155	17.713495	2530	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
0*	0*	0*	0*	2680	cpm	soil	0.25
311111.0512	1959378.224	-64.78119333	17.71346333	2680	cpm	soil	0.25
311109.4462	1959376.763	-64.78120833	17.71345	2700	cpm	soil	0.25
0*	0*	0*	0*	2740	cpm	soil	0.25
311106.0487	1959372.737	-64.78124	17.71341333	2710	cpm	soil	0.25
311105.1578	1959372.007	-64.78124833	17.71340667	2700	cpm	soil	0.25
311102.6583	1959369.448	-64.78127167	17.71338333	2670	cpm	soil	0.25
0*	0*	0*	0*	2780	cpm	soil	0.25
311099.2713	1959366.529	-64.78130333	17.71335667	2700	cpm	soil	0.25
311097.1359	1959365.073	-64.78132333	17.71334333	2660	cpm	soil	0.25
311096.0682	1959364.345	-64.78133333	17.71333667	2570	cpm	soil	0.25
311094.2828	1959362.517	-64.78135	17.71332	2540	cpm	soil	0.25
311092.3137	1959359.953	-64.78136833	17.71329667	2470	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
311090.7086	1959358.493	-64.78138333	17.71328333	2390	cpm	soil	0.25
311087.3199	1959355.389	-64.781415	17.713255	2320	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311085.8881	1959353.557	-64.78142833	17.71323833	2270	cpm	soil	0.25
311085.7096	1959353.375	-64.78143	17.71323667	2250	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
311083.035	1959351.002	-64.781455	17.713215	2140	cpm	soil	0.25
311080.7141	1959348.625	-64.78147667	17.71319333	2080	cpm	soil	0.25
311079.284	1959346.979	-64.78149	17.71317833	2030	cpm	soil	0.25
311078.0308	1959345.33	-64.78150167	17.71316333	2040	cpm	soil	0.25
311077.3166	1959344.599	-64.78150833	17.71315667	2060	cpm	soil	0.25
311075.7115	1959343.138	-64.78152333	17.71314333	2060	cpm	soil	0.25
311073.3888	1959340.578	-64.781545	17.71312	2040	cpm	soil	0.25
311072.3106	1959338.743	-64.781555	17.71310333	2040	cpm	soil	0.25
311071.5947	1959337.828	-64.78156167	17.713095	2020	cpm	soil	0.25
311069.8041	1959335.446	-64.78157833	17.71307333	2040	cpm	soil	0.25
311068.5526	1959333.982	-64.78159	17.71306	2030	cpm	soil	0.25
311067.1226	1959332.336	-64.78160333	17.713045	2030	cpm	soil	0.25
311065.3407	1959330.877	-64.78162	17.71303167	2090	cpm	soil	0.25
311064.448	1959329.963	-64.78162833	17.71302333	2130	cpm	soil	0.25
311062.4771	1959327.214	-64.78164667	17.71299833	2110	cpm	soil	0.25
311061.763	1959326.483	-64.78165333	17.71299167	2130	cpm	soil	0.25
311060.1579	1959325.022	-64.78166833	17.71297833	2130	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311056.2126	1959319.156	-64.781705	17.712925	2080	cpm	soil	0.25
311055.1362	1959317.506	-64.781715	17.71291	2100	cpm	soil	0.25
311052.6384	1959315.132	-64.78173833	17.71288833	2120	cpm	soil	0.25
311051.7475	1959314.402	-64.78174667	17.71288167	2110	cpm	soil	0.25
311050.671	1959312.752	-64.78175667	17.71286667	2160	cpm	soil	0.25
311048.8787	1959310.186	-64.78177333	17.71284333	2250	cpm	soil	0.25
311047.4504	1959308.724	-64.78178667	17.71283	2340	cpm	soil	0.25
311046.3739	1959307.074	-64.78179667	17.712815	2410	cpm	soil	0.25
0*	0*	0*	0*	2460	cpm	soil	0.25
311043.6923	1959303.963	-64.78182167	17.71278667	2510	cpm	soil	0.25
311042.9765	1959303.048	-64.78182833	17.71277833	2550	cpm	soil	0.25
311041.7232	1959301.399	-64.78184	17.71276333	2570	cpm	soil	0.25
311039.7575	1959299.204	-64.78185833	17.71274333	2520	cpm	soil	0.25
311038.6846	1959297.923	-64.78186833	17.71273167	2500	cpm	soil	0.25
0*	0*	0*	0*	2560	cpm	soil	0.25
311037.2353	1959294.247	-64.78188167	17.71269833	2640	cpm	soil	0.25
311035.8053	1959292.6	-64.781895	17.71268333	2640	cpm	soil	0.25
311034.5503	1959290.767	-64.78190667	17.71266667	2650	cpm	soil	0.25
311033.115	1959288.567	-64.78192	17.71264667	2740	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2770	cpm	soil	0.25
311030.787	1959285.453	-64.78194167	17.71261833	2780	cpm	soil	0.25
311030.4265	1959284.719	-64.781945	17.71261167	2750	cpm	soil	0.25
0*	0*	0*	0*	2700	cpm	soil	0.25
311028.2613	1959280.127	-64.781965	17.71257	2750	cpm	soil	0.25
0*	0*	0*	0*	2780	cpm	soil	0.25
311026.455	1959276.086	-64.78198167	17.71253333	2840	cpm	soil	0.25
0*	0*	0*	0*	2980	cpm	soil	0.25
311023.2361	1959272.242	-64.78201167	17.71249833	3100	cpm	soil	0.25
0*	0*	0*	0*	3200	cpm	soil	0.25
311020.7261	1959268.576	-64.782035	17.712465	3220	cpm	soil	0.25
311020.0032	1959266.923	-64.78204167	17.71245	3310	cpm	soil	0.25
0*	0*	0*	0*	3210	cpm	soil	0.25
311018.0253	1959263.437	-64.78206	17.71241833	3310	cpm	soil	0.25
0*	0*	0*	0*	3310	cpm	soil	0.25
0*	0*	0*	0*	3460	cpm	soil	0.25
311015.1512	1959258.667	-64.78208667	17.712375	3530	cpm	soil	0.25
0*	0*	0*	0*	3560	cpm	soil	0.25
311012.4575	1959254.265	-64.78211167	17.712335	3720	cpm	soil	0.25
311011.3793	1959252.431	-64.78212167	17.71231833	3860	cpm	soil	0.25
311010.301	1959250.596	-64.78213167	17.71230167	3870	cpm	soil	0.25
0*	0*	0*	0*	3770	cpm	soil	0.25
0*	0*	0*	0*	3860	cpm	soil	0.25
311009.944	1959250.231	-64.782135	17.71229833	3810	cpm	soil	0.25
311008.5157	1959248.768	-64.78214833	17.712285	3680	cpm	soil	0.25
311007.4374	1959246.934	-64.78215833	17.71226833	3640	cpm	soil	0.25
311006.7233	1959246.203	-64.782165	17.71226167	3680	cpm	soil	0.25
311004.5756	1959243.456	-64.782185	17.71223667	3810	cpm	soil	0.25
311003.3189	1959241.438	-64.78219667	17.71221833	4060	cpm	soil	0.25
311002.4157	1959239.418	-64.782205	17.7122	4020	cpm	soil	0.25
311001.3357	1959237.399	-64.782215	17.71218167	3790	cpm	soil	0.25
311000.7966	1959236.481	-64.78222	17.71217333	3520	cpm	soil	0.25
310999.1793	1959233.73	-64.782235	17.71214833	3440	cpm	soil	0.25
310998.1046	1959232.264	-64.782245	17.712135	3310	cpm	soil	0.25
0*	0*	0*	0*	3130	cpm	soil	0.25
310996.671	1959230.248	-64.78225833	17.71211667	3030	cpm	soil	0.25
310995.7783	1959229.334	-64.78226667	17.71210833	2960	cpm	soil	0.25
310994.5251	1959227.686	-64.78227833	17.71209333	2980	cpm	soil	0.25
310993.6254	1959226.034	-64.78228667	17.71207833	2920	cpm	soil	0.25
0*	0*	0*	0*	2910	cpm	soil	0.25
310991.8278	1959222.915	-64.78230333	17.71205	2940	cpm	soil	0.25
310990.9299	1959221.448	-64.78231167	17.71203667	3020	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310989.8569	1959220.166	-64.78232167	17.712025	3030	cpm	soil	0.25
310989.134	1959218.513	-64.78232833	17.71201	2970	cpm	soil	0.25
310988.9502	1959217.777	-64.78233	17.71200333	3020	cpm	soil	0.25
0*	0*	0*	0*	3040	cpm	soil	0.25
310986.0866	1959214.114	-64.78235667	17.71197	2960	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
0*	0*	0*	0*	3050	cpm	soil	0.25
310981.4516	1959210.1	-64.7824	17.71193333	3050	cpm	soil	0.25
310980.5519	1959208.448	-64.78240833	17.71191833	3060	cpm	soil	0.25
310980.0024	1959206.424	-64.78241333	17.7119	3040	cpm	soil	0.25
310979.4545	1959204.584	-64.78241833	17.71188333	3090	cpm	soil	0.25
310979.269	1959203.664	-64.78242	17.711875	3120	cpm	soil	0.25
310978.1925	1959202.014	-64.78243	17.71186	3170	cpm	soil	0.25
310977.2963	1959200.731	-64.78243833	17.71184833	3160	cpm	soil	0.25
310976.7555	1959199.629	-64.78244333	17.71183833	3130	cpm	soil	0.25
310975.679	1959197.979	-64.78245333	17.71182333	3110	cpm	soil	0.25
310974.4257	1959196.33	-64.782465	17.71180833	3160	cpm	soil	0.25
310973.1707	1959194.498	-64.78247667	17.71179167	3310	cpm	soil	0.25
310971.7389	1959192.666	-64.78249	17.711775	3210	cpm	soil	0.25
0*	0*	0*	0*	3240	cpm	soil	0.25
310969.9431	1959189.732	-64.78250667	17.71174833	3200	cpm	soil	0.25
310968.3327	1959187.718	-64.78252167	17.71173	3300	cpm	soil	0.25
310966.7119	1959184.597	-64.78253667	17.71170167	3340	cpm	soil	0.25
310966.1728	1959183.68	-64.78254167	17.71169333	3230	cpm	soil	0.25
310964.559	1959181.297	-64.78255667	17.71167167	3090	cpm	soil	0.25
310963.4807	1959179.462	-64.78256667	17.711655	3090	cpm	soil	0.25
310961.8721	1959177.633	-64.78258167	17.71163833	3010	cpm	soil	0.25
0*	0*	0*	0*	2970	cpm	soil	0.25
310959.0138	1959174.523	-64.78260833	17.71161	3060	cpm	soil	0.25
310958.4782	1959173.975	-64.78261333	17.711605	3100	cpm	soil	0.25
310957.2266	1959172.511	-64.782625	17.71159167	3070	cpm	soil	0.25
310955.4377	1959170.314	-64.78264167	17.71157167	3060	cpm	soil	0.25
310954.5398	1959168.847	-64.78265	17.71155833	3090	cpm	soil	0.25
310953.8239	1959167.931	-64.78265667	17.71155	3050	cpm	soil	0.25
310952.0333	1959165.55	-64.78267333	17.71152833	3110	cpm	soil	0.25
0*	0*	0*	0*	3160	cpm	soil	0.25
310949.8838	1959162.619	-64.78269333	17.71150167	3120	cpm	soil	0.25
310949.3482	1959162.071	-64.78269833	17.71149667	3090	cpm	soil	0.25
310948.0897	1959159.869	-64.78271	17.71147667	2990	cpm	soil	0.25
310947.5523	1959159.136	-64.782715	17.71147	3110	cpm	soil	0.25
310946.4759	1959157.486	-64.782725	17.711455	3100	cpm	soil	0.25
310945.7442	1959154.91	-64.78273167	17.71143167	3030	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2970	cpm	soil	0.25
310944.484	1959152.524	-64.78274333	17.71141	2920	cpm	soil	0.25
310942.8701	1959150.141	-64.78275833	17.71138833	2890	cpm	soil	0.25
310942.5096	1959149.406	-64.78276167	17.71138167	2880	cpm	soil	0.25
310941.6046	1959147.201	-64.78277	17.71136167	2820	cpm	soil	0.25
310940.7067	1959145.734	-64.78277833	17.71134833	2900	cpm	soil	0.25
310940.1693	1959145.001	-64.78278333	17.71134167	2940	cpm	soil	0.25
0*	0*	0*	0*	2880	cpm	soil	0.25
0*	0*	0*	0*	2860	cpm	soil	0.25
310935.5116	1959138.588	-64.78282667	17.71128333	2920	cpm	soil	0.25
310934.2478	1959135.833	-64.78283833	17.71125833	2960	cpm	soil	0.25
310932.6445	1959134.557	-64.78285333	17.71124667	2880	cpm	soil	0.25
310930.8608	1959132.914	-64.78287	17.71123167	2910	cpm	soil	0.25
310929.7896	1959131.817	-64.78288	17.71122167	2930	cpm	soil	0.25
310929.7896	1959131.817	-64.78288	17.71122167	3020	cpm	soil	0.25
310927.8169	1959128.884	-64.78289833	17.711195	3020	cpm	soil	0.25
310926.7404	1959127.234	-64.78290833	17.71118	3000	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3010	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	2960	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3040	cpm	soil	0.25
0*	0*	0*	0*	2960	cpm	soil	0.25
0*	0*	0*	0*	2970	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3040	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3090	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3070	cpm	soil	0.25
310926.2031	1959126.501	-64.78291333	17.71117333	3020	cpm	soil	0.25
0*	0*	0*	0*	3120	cpm	soil	0.25
310924.9446	1959124.299	-64.782925	17.71115333	2980	cpm	soil	0.25
310923.5093	1959122.099	-64.78293833	17.71113333	3040	cpm	soil	0.25
310922.0827	1959120.821	-64.78295167	17.71112167	3070	cpm	soil	0.25
310921.3703	1959120.274	-64.78295833	17.71111667	3000	cpm	soil	0.25
310920.1083	1959117.704	-64.78297	17.71109333	2920	cpm	soil	0.25
310919.0283	1959115.685	-64.78298	17.711075	2930	cpm	soil	0.25
310917.9518	1959114.035	-64.78299	17.71106	2990	cpm	soil	0.25
0*	0*	0*	0*	2990	cpm	soil	0.25
310916.1594	1959111.469	-64.78300667	17.71103667	3010	cpm	soil	0.25
310914.7189	1959108.715	-64.78302	17.71101167	3000	cpm	soil	0.25
310914.1798	1959107.798	-64.783025	17.71100333	3030	cpm	soil	0.25
310913.2783	1959105.962	-64.78303333	17.71098667	3090	cpm	soil	0.25
0*	0*	0*	0*	3100	cpm	soil	0.25
310911.2952	1959101.922	-64.78305167	17.71095	2970	cpm	soil	0.25
310910.9346	1959101.188	-64.783055	17.71094333	2890	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310910.9346	1959101.188	-64.783055	17.71094333	2810	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
310910.7543	1959100.82	-64.78305667	17.71094	2870	cpm	soil	0.25
310910.7543	1959100.82	-64.78305667	17.71094	2900	cpm	soil	0.25
310910.7543	1959100.82	-64.78305667	17.71094	3000	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
310910.2047	1959098.796	-64.78306167	17.71092167	3010	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
310908.927	1959094.565	-64.78307333	17.71088333	3070	cpm	soil	0.25
310908.0256	1959092.729	-64.78308167	17.71086667	3020	cpm	soil	0.25
310907.4829	1959091.443	-64.78308667	17.710855	3040	cpm	soil	0.25
310907.1259	1959091.077	-64.78309	17.71085167	3110	cpm	soil	0.25
0*	0*	0*	0*	3110	cpm	soil	0.25
0*	0*	0*	0*	3060	cpm	soil	0.25
310906.0267	1959087.029	-64.7831	17.710815	3130	cpm	soil	0.25
310905.1252	1959085.193	-64.78310833	17.71079833	3140	cpm	soil	0.25
310903.6987	1959083.915	-64.78312167	17.71078667	3200	cpm	soil	0.25
310902.4454	1959082.267	-64.78313333	17.71077167	3200	cpm	soil	0.25
310901.3672	1959080.432	-64.78314333	17.710755	3240	cpm	soil	0.25
0*	0*	0*	0*	3290	cpm	soil	0.25
310899.2107	1959076.763	-64.78316333	17.71072167	3270	cpm	soil	0.25
310897.9557	1959074.93	-64.783175	17.710705	3380	cpm	soil	0.25
0*	0*	0*	0*	3500	cpm	soil	0.25
310896.3313	1959071.44	-64.78319	17.71067333	3550	cpm	soil	0.25
310895.0763	1959069.608	-64.78320167	17.71065667	3610	cpm	soil	0.25
310894.5267	1959067.584	-64.78320667	17.71063833	3640	cpm	soil	0.25
310893.8038	1959065.93	-64.78321333	17.71062333	3620	cpm	soil	0.25
0*	0*	0*	0*	3550	cpm	soil	0.25
310892.7203	1959063.542	-64.78322333	17.71060167	3620	cpm	soil	0.25
310891.6351	1959060.97	-64.78323333	17.71057833	3850	cpm	soil	0.25
310890.9105	1959059.132	-64.78324	17.71056167	3920	cpm	soil	0.25
310890.1841	1959057.109	-64.78324667	17.71054333	3860	cpm	soil	0.25
310889.6345	1959055.085	-64.78325167	17.710525	4040	cpm	soil	0.25
310888.9081	1959053.063	-64.78325833	17.71050667	4140	cpm	soil	0.25
310888.544	1959051.96	-64.78326167	17.71049667	4190	cpm	soil	0.25
310887.9962	1959050.12	-64.78326667	17.71048	3980	cpm	soil	0.25
310886.9075	1959047.179	-64.78327667	17.71045333	3840	cpm	soil	0.25
310886.3649	1959045.892	-64.78328167	17.71044167	3800	cpm	soil	0.25
310885.9955	1959044.236	-64.783285	17.71042667	3900	cpm	soil	0.25
310885.628	1959042.763	-64.78328833	17.71041333	3740	cpm	soil	0.25
310885.2691	1959042.213	-64.78329167	17.71040833	3730	cpm	soil	0.25
310884.1874	1959040.01	-64.78330167	17.71038833	3850	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310883.6501	1959039.277	-64.78330667	17.71038167	3950	cpm	soil	0.25
310883.6501	1959039.277	-64.78330667	17.71038167	3870	cpm	soil	0.25
0*	0*	0*	0*	4090	cpm	soil	0.25
310883.8111	1959037.615	-64.783305	17.71036667	4040	cpm	soil	0.25
310884.1455	1959035.583	-64.78330167	17.71034833	3980	cpm	soil	0.25
310884.3048	1959033.736	-64.7833	17.71033167	4030	cpm	soil	0.25
310884.2856	1959031.707	-64.7833	17.71031333	4060	cpm	soil	0.25
310884.2664	1959029.678	-64.7833	17.710295	4100	cpm	soil	0.25
310884.2507	1959028.018	-64.7833	17.71028	4040	cpm	soil	0.25
310884.9334	1959025.429	-64.78329333	17.71025667	3820	cpm	soil	0.25
310885.28	1959024.688	-64.78329	17.71025	3700	cpm	soil	0.25
310885.4358	1959022.473	-64.78328833	17.71023	3620	cpm	soil	0.25
310885.6074	1959021.918	-64.78328667	17.710225	3640	cpm	soil	0.25
310885.6074	1959021.918	-64.78328667	17.710225	3690	cpm	soil	0.25
310885.6074	1959021.918	-64.78328667	17.710225	3540	cpm	soil	0.25
310886.1238	1959020.437	-64.78328167	17.71021167	3550	cpm	soil	0.25
310886.4704	1959019.696	-64.78327833	17.710205	3580	cpm	soil	0.25
310886.817	1959018.954	-64.783275	17.71019833	3510	cpm	soil	0.25
310887.4979	1959016.181	-64.78326833	17.71017333	3490	cpm	soil	0.25
0*	0*	0*	0*	3540	cpm	soil	0.25
310888.5255	1959012.666	-64.78325833	17.71014167	3510	cpm	soil	0.25
310888.8651	1959011.187	-64.783255	17.71012833	3620	cpm	soil	0.25
310889.0262	1959009.525	-64.78325333	17.71011333	3650	cpm	soil	0.25
310889.371	1959008.599	-64.78325	17.710105	3740	cpm	soil	0.25
310890.5806	1959005.636	-64.78323833	17.71007833	3620	cpm	soil	0.25
0*	0*	0*	0*	3640	cpm	soil	0.25
310891.4349	1959002.492	-64.78323	17.71005	3620	cpm	soil	0.25
310892.1229	1959000.456	-64.78322333	17.71003167	3630	cpm	soil	0.25
310892.4607	1958998.793	-64.78322	17.71001667	3730	cpm	soil	0.25
310893.3237	1958996.571	-64.78321167	17.70999667	3860	cpm	soil	0.25
0*	0*	0*	0*	3750	cpm	soil	0.25
310894.0047	1958993.797	-64.783205	17.70997167	3810	cpm	soil	0.25
310893.8104	1958991.954	-64.78320667	17.709955	3910	cpm	soil	0.25
310893.6144	1958989.927	-64.78320833	17.70993667	3790	cpm	soil	0.25
310893.5865	1958986.976	-64.78320833	17.70991	3770	cpm	soil	0.25
0*	0*	0*	0*	3770	cpm	soil	0.25
310894.9781	1958984.564	-64.783195	17.70988833	3860	cpm	soil	0.25
310896.193	1958982.155	-64.78318333	17.70986667	3900	cpm	soil	0.25
0*	0*	0*	0*	3940	cpm	soil	0.25
310897.2223	1958978.824	-64.78317333	17.70983667	3950	cpm	soil	0.25
0*	0*	0*	0*	4190	cpm	soil	0.25
310898.0766	1958975.68	-64.783165	17.70980833	4130	cpm	soil	0.25

Table 31: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site

X	Y	DEC_DEG_X	DEC_DEG_Y	RESULTS	UNITS	SURFACE	DET HEIGHT (M)
310900.1754	1958973.262	-64.783145	17.70978667	4260	cpm	soil	0.25
310900.8686	1958971.779	-64.78313833	17.70977333	4360	cpm	soil	0.25
310901.7386	1958970.295	-64.78313	17.70976	4560	cpm	soil	0.25
310902.6068	1958968.627	-64.78312167	17.709745	4670	cpm	soil	0.25
0*	0*	0*	0*	4730	cpm	soil	0.25
310903.6344	1958965.112	-64.78311167	17.70971333	4660	cpm	soil	0.25
0*	0*	0*	0*	4820	cpm	soil	0.25
0*	0*	0*	0*	5270	cpm	soil	0.25
0*	0*	0*	0*	5810	cpm	soil	0.25
310904.2892	1958959.572	-64.783105	17.70966333	6050	cpm	soil	0.25
0*	0*	0*	0*	6220	cpm	soil	0.25
310904.2892	1958959.572	-64.783105	17.70966333	6670	cpm	soil	0.25
310904.2892	1958959.572	-64.783105	17.70966333	6810	cpm	soil	0.25

Minimum =	**1790**
Maximum =	**6810**
Median =	**2910**
Arithmetic mean =	**2915**
One Sigma =	**746**
Two Sigma =	**1493**

Average Background =	**5193.75**	**cpm**		
Background +/- One Sigma =	**4597**	**to**	**5790**	**cpm**
Background +/- Two Sigma	**4000**	**to**	**6387**	**cpm**

0* - GPS data not available

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2250	cpm	soil	0.25
311084.681	1959524.95	-64.781455	17.71478667	2220	cpm	soil	0.25
311084.487	1959523.11	-64.78145667	17.71477	2220	cpm	soil	0.25
311084.995	1959520.7	-64.78145167	17.71474833	2150	cpm	soil	0.25
311086.034	1959518.48	-64.78144167	17.71472833	2200	cpm	soil	0.25
311087.428	1959516.25	-64.78142833	17.71470833	2220	cpm	soil	0.25
311088.644	1959514.03	-64.78141667	17.71468833	2090	cpm	soil	0.25
311090.052	1959513.28	-64.78140333	17.71468167	2220	cpm	soil	0.25
311091.125	1959514.56	-64.78139333	17.71469333	2080	cpm	soil	0.25
311092.726	1959515.65	-64.78137833	17.71470333	2130	cpm	soil	0.25
311094.147	1959516.37	-64.781365	17.71471	1950	cpm	soil	0.25
311094.149	1959516.56	-64.781365	17.71471167	1980	cpm	soil	0.25
311094.149	1959516.56	-64.781365	17.71471167	1870	cpm	soil	0.25
311094.149	1959516.56	-64.781365	17.71471167	1870	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
311097.347	1959518.19	-64.781335	17.71472667	1770	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
311101.256	1959520.18	-64.78129833	17.714745	1820	cpm	soil	0.25
311103.561	1959520.9	-64.78127667	17.71475167	1700	cpm	soil	0.25
311106.391	1959521.05	-64.78125	17.71475333	1900	cpm	soil	0.25
311109.047	1959521.4	-64.781225	17.71475667	2050	cpm	soil	0.25
311110.288	1959521.75	-64.78121333	17.71476	1970	cpm	soil	0.25
311114.012	1959523.01	-64.78117833	17.71477167	2020	cpm	soil	0.25
311115.614	1959524.1	-64.78116333	17.71478167	2190	cpm	soil	0.25
311117.391	1959525.01	-64.78114667	17.71479	2020	cpm	soil	0.25
311118.632	1959525.37	-64.781135	17.71479333	2220	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2190	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2030	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2000	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	1830	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	1840	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	1940	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2010	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2060	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	1870	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	2080	cpm	soil	0.25
0*	0*	0*	0*	2030	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
311139.382	1959532.18	-64.78094	17.71485667	2000	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
311152.69	1959537.22	-64.780815	17.71490333	1730	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
311157.835	1959539.01	-64.78076667	17.71492	1800	cpm	soil	0.25
311160.672	1959539.91	-64.78074	17.71492833	1790	cpm	soil	0.25
311163.158	1959540.99	-64.78071667	17.71493833	1780	cpm	soil	0.25
311164.402	1959541.72	-64.780705	17.714945	1820	cpm	soil	0.25
311168.304	1959542.97	-64.78066833	17.71495667	1880	cpm	soil	0.25
311169.73	1959544.25	-64.780655	17.71496833	1810	cpm	soil	0.25
311168.668	1959544.08	-64.780665	17.71496667	1840	cpm	soil	0.25
311166.714	1959543.17	-64.78068333	17.71495833	1760	cpm	soil	0.25
311165.652	1959543	-64.78069333	17.71495667	1610	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
0*	0*	0*	0*	1480	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
0*	0*	0*	0*	1530	cpm	soil	0.25
0*	0*	0*	0*	1530	cpm	soil	0.25
311150.215	1959537.24	-64.78083833	17.71490333	1650	cpm	soil	0.25
311147.905	1959535.97	-64.78086	17.71489167	1650	cpm	soil	0.25
311145.594	1959534.7	-64.78088167	17.71488	1760	cpm	soil	0.25
311143.287	1959533.8	-64.78090333	17.71487167	1870	cpm	soil	0.25
311141.868	1959533.26	-64.78091667	17.71486667	2060	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311135.304	1959530.93	-64.78097833	17.714845	2090	cpm	soil	0.25
311132.642	1959529.84	-64.78100333	17.714835	2240	cpm	soil	0.25
311130.158	1959528.95	-64.78102667	17.71482667	2360	cpm	soil	0.25
311128.738	1959528.41	-64.78104	17.71482167	2210	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
311123.773	1959526.79	-64.78108667	17.71480667	1940	cpm	soil	0.25
311121.824	1959526.44	-64.781105	17.71480333	1930	cpm	soil	0.25
311120.228	1959525.9	-64.78112	17.71479833	1870	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
311081.892	1959547.85	-64.78148333	17.71499333	2540	cpm	soil	0.25
311080.844	1959549.15	-64.78149333	17.715005	2430	cpm	soil	0.25
311079.27	1959551.01	-64.78150833	17.71502167	2530	cpm	soil	0.25
311078.575	1959552.31	-64.781515	17.71503333	2500	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
311075.277	1959558.8	-64.78154667	17.71509167	2360	cpm	soil	0.25
311075.305	1959561.75	-64.78154667	17.71511833	2330	cpm	soil	0.25
311075.496	1959563.22	-64.781545	17.71513167	2180	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311074.15	1959570.43	-64.78155833	17.71519667	1840	cpm	soil	0.25
0*	0*	0*	0*	1800	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
311073.803	1959571.17	-64.78156167	17.71520333	1750	cpm	soil	0.25
311072.762	1959573.21	-64.78157167	17.71522167	1630	cpm	soil	0.25
311071.548	1959575.8	-64.78158333	17.715245	1550	cpm	soil	0.25
311070.348	1959579.69	-64.781595	17.71528	1690	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
311066.901	1959589.13	-64.78162833	17.715365	1810	cpm	soil	0.25
311066.56	1959590.43	-64.78163167	17.71537667	1720	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
311069.317	1959582.84	-64.781605	17.71530833	1970	cpm	soil	0.25
311069.66	1959581.73	-64.78160167	17.71529833	1940	cpm	soil	0.25
311070.523	1959579.5	-64.78159333	17.71527833	1940	cpm	soil	0.25
311071.03	1959577.1	-64.78158833	17.71525667	1920	cpm	soil	0.25
311071.713	1959574.51	-64.78158167	17.71523333	1890	cpm	soil	0.25
311072.392	1959571.55	-64.781575	17.71520667	1800	cpm	soil	0.25
311073.075	1959568.96	-64.78156833	17.71518333	1810	cpm	soil	0.25
311073.581	1959566.38	-64.78156333	17.71516	1640	cpm	soil	0.25
311074.26	1959563.42	-64.78155667	17.71513333	1660	cpm	soil	0.25
311075.118	1959560.64	-64.78154833	17.71510833	1780	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
311078.222	1959552.31	-64.78151833	17.71503333	1690	cpm	soil	0.25
311079.788	1959549.71	-64.78150333	17.71501	1820	cpm	soil	0.25
311080.483	1959548.42	-64.78149667	17.71499833	2200	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2160	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
311083.55	1959536.21	-64.78146667	17.71488833	2250	cpm	soil	0.25
311084.06	1959533.99	-64.78146167	17.71486833	2150	cpm	soil	0.25
311085.098	1959531.59	-64.78145167	17.71484667	2100	cpm	soil	0.25
311086.312	1959529.18	-64.78144	17.714825	2020	cpm	soil	0.25
311086.645	1959526.96	-64.78143667	17.714805	1990	cpm	soil	0.25
311086.629	1959525.3	-64.78143667	17.71479	1800	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
311088.361	1959521.41	-64.78142	17.714755	1680	cpm	soil	0.25
311089.934	1959519.55	-64.781405	17.71473833	1800	cpm	soil	0.25
311090.797	1959517.33	-64.78139667	17.71471833	1860	cpm	soil	0.25
311091.312	1959515.66	-64.78139167	17.71470333	1940	cpm	soil	0.25
311091.487	1959515.48	-64.78139	17.71470167	1940	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
311091.487	1959515.48	-64.78139	17.71470167	1940	cpm	soil	0.25
311091.837	1959515.1	-64.78138667	17.71469833	1940	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
311093.064	1959513.99	-64.781375	17.71468833	1700	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
311094.379	1959503.46	-64.78136167	17.71459333	2090	cpm	soil	0.25
311095.59	1959500.68	-64.78135	17.71456833	2190	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
311098.188	1959494.94	-64.781325	17.71451667	1890	cpm	soil	0.25
311099.221	1959491.97	-64.781315	17.71449	1960	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311099.869	1959485.7	-64.78130833	17.71443333	1910	cpm	soil	0.25
311100.368	1959482.37	-64.78130333	17.71440333	1920	cpm	soil	0.25
311101.043	1959479.04	-64.78129667	17.71437333	1870	cpm	soil	0.25
311101.899	1959476.08	-64.78128833	17.71434667	1630	cpm	soil	0.25
311102.578	1959473.13	-64.78128167	17.71432	1680	cpm	soil	0.25
311103.259	1959470.35	-64.781275	17.714295	1640	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
311108.024	1959469.38	-64.78123	17.71428667	1810	cpm	soil	0.25
311108.743	1959470.67	-64.78122333	17.71429833	1790	cpm	soil	0.25
311108.596	1959473.81	-64.781225	17.71432667	1660	cpm	soil	0.25
311108.598	1959473.99	-64.781225	17.71432833	1760	cpm	soil	0.25
311108.598	1959473.99	-64.781225	17.71432833	1780	cpm	soil	0.25
311108.598	1959473.99	-64.781225	17.71432833	1820	cpm	soil	0.25
311107.91	1959476.03	-64.78123167	17.71434667	1890	cpm	soil	0.25
311106.522	1959478.81	-64.781245	17.71437167	1750	cpm	soil	0.25
311105.491	1959481.95	-64.781255	17.7144	1800	cpm	soil	0.25
311104.101	1959484.55	-64.78126833	17.71442333	1870	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311103.068	1959487.51	-64.78127833	17.71445	1840	cpm	soil	0.25
311102.21	1959490.29	-64.78128667	17.714475	1750	cpm	soil	0.25
311101.351	1959492.88	-64.781295	17.71449833	1740	cpm	soil	0.25
311100.491	1959495.47	-64.78130333	17.71452167	1700	cpm	soil	0.25
311099.807	1959497.87	-64.78131	17.71454333	1740	cpm	soil	0.25
311099.462	1959498.8	-64.78131333	17.71455167	1770	cpm	soil	0.25
311098.258	1959502.31	-64.781325	17.71458333	1810	cpm	soil	0.25
311098.284	1959505.08	-64.781325	17.71460833	1720	cpm	soil	0.25
311099.177	1959505.99	-64.78131667	17.71461667	1870	cpm	soil	0.25
311102.728	1959507.62	-64.78128333	17.71463167	1980	cpm	soil	0.25
311105.389	1959508.52	-64.78125833	17.71464	2070	cpm	soil	0.25
311106.801	1959508.32	-64.781245	17.71463833	2030	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
311110.6	1959498.69	-64.78120833	17.71455167	1780	cpm	soil	0.25
311111.121	1959497.76	-64.78120333	17.71454333	1760	cpm	soil	0.25
0*	0*	0*	0*	1630	cpm	soil	0.25
311110.346	1959490.58	-64.78121	17.71447833	1490	cpm	soil	0.25
311110.495	1959487.62	-64.78120833	17.71445167	1430	cpm	soil	0.25
311111.178	1959485.04	-64.78120167	17.71442833	1440	cpm	soil	0.25
311112.216	1959482.63	-64.78119167	17.71440667	1320	cpm	soil	0.25
0*	0*	0*	0*	1380	cpm	soil	0.25
311113.06	1959478.38	-64.78118333	17.71436833	1370	cpm	soil	0.25
0*	0*	0*	0*	1450	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25
0*	0*	0*	0*	1460	cpm	soil	0.25
0*	0*	0*	0*	1440	cpm	soil	0.25
0*	0*	0*	0*	1430	cpm	soil	0.25
0*	0*	0*	0*	1420	cpm	soil	0.25
0*	0*	0*	0*	1400	cpm	soil	0.25
311116.767	1959477.79	-64.78114833	17.71436333	1380	cpm	soil	0.25
311116.767	1959477.79	-64.78114833	17.71436333	1410	cpm	soil	0.25
0*	0*	0*	0*	1390	cpm	soil	0.25
0*	0*	0*	0*	1330	cpm	soil	0.25
311114.178	1959484.45	-64.78117333	17.71442333	1420	cpm	soil	0.25
0*	0*	0*	0*	1370	cpm	soil	0.25
0*	0*	0*	0*	1370	cpm	soil	0.25
311113.541	1959491.84	-64.78118	17.71449	1350	cpm	soil	0.25
311113.541	1959491.84	-64.78118	17.71449	1380	cpm	soil	0.25
311113.541	1959491.84	-64.78118	17.71449	1310	cpm	soil	0.25
311113.549	1959492.76	-64.78118	17.71449833	1320	cpm	soil	0.25
311113.745	1959494.79	-64.78117833	17.71451667	1410	cpm	soil	0.25
311113.588	1959496.82	-64.78118	17.714535	1300	cpm	soil	0.25
311113.597	1959497.74	-64.78118	17.71454333	1340	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2130	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
311125.096	1959517.19	-64.78107333	17.71472	2210	cpm	soil	0.25
311126.166	1959518.1	-64.78106333	17.71472833	2140	cpm	soil	0.25
311130.251	1959520.09	-64.781025	17.71474667	2040	cpm	soil	0.25
311131.67	1959520.63	-64.78101167	17.71475167	1950	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311138.95	1959523.88	-64.78094333	17.71478167	1810	cpm	soil	0.25
311141.791	1959525.15	-64.78091667	17.71479333	1840	cpm	soil	0.25
311143.212	1959525.87	-64.78090333	17.7148	1890	cpm	soil	0.25
311147.657	1959528.41	-64.78086167	17.71482333	1970	cpm	soil	0.25
311150.847	1959529.3	-64.78083167	17.71483167	2040	cpm	soil	0.25
311152.617	1959529.47	-64.780815	17.71483333	1950	cpm	soil	0.25
311154.39	1959530.01	-64.78079833	17.71483833	2010	cpm	soil	0.25
311159.174	1959531.07	-64.78075333	17.71484833	1960	cpm	soil	0.25
311160.238	1959531.43	-64.78074333	17.71485167	1910	cpm	soil	0.25
311160.77	1959531.61	-64.78073833	17.71485333	1870	cpm	soil	0.25
311162.897	1959532.14	-64.78071833	17.71485833	1870	cpm	soil	0.25
311165.916	1959533.59	-64.78069	17.71487167	1840	cpm	soil	0.25
311170.177	1959535.39	-64.78065	17.71488833	1780	cpm	soil	0.25
311170.01	1959536.5	-64.78065167	17.71489833	1750	cpm	soil	0.25
311167.886	1959536.15	-64.78067167	17.714895	1730	cpm	soil	0.25
311166.468	1959535.8	-64.780685	17.71489167	1760	cpm	soil	0.25
311162.207	1959533.99	-64.780725	17.714875	1810	cpm	soil	0.25
311159.013	1959532.73	-64.780755	17.71486333	1890	cpm	soil	0.25
311157.415	1959532.01	-64.78077	17.71485667	1870	cpm	soil	0.25
311152.799	1959530.02	-64.78081333	17.71483833	2020	cpm	soil	0.25
311151.201	1959529.3	-64.78082833	17.71483167	2090	cpm	soil	0.25
311146.589	1959527.68	-64.78087167	17.71481667	1900	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
311138.43	1959524.99	-64.78094833	17.71479167	1880	cpm	soil	0.25
311135.768	1959523.91	-64.78097333	17.71478167	1830	cpm	soil	0.25
311132.929	1959522.83	-64.781	17.71477167	1770	cpm	soil	0.25
311130.088	1959521.57	-64.78102667	17.71476	1790	cpm	soil	0.25
311127.247	1959520.3	-64.78105333	17.71474833	1790	cpm	soil	0.25
311124.583	1959519.04	-64.78107833	17.71473667	1720	cpm	soil	0.25
311122.099	1959518.14	-64.78110167	17.71472833	1680	cpm	soil	0.25
311119.792	1959517.24	-64.78112333	17.71472	1690	cpm	soil	0.25
311118.548	1959516.51	-64.781135	17.71471333	1650	cpm	soil	0.25
311116.766	1959515.05	-64.78115167	17.7147	1720	cpm	soil	0.25
311114.449	1959513.04	-64.78117333	17.71468167	1660	cpm	soil	0.25
311111.783	1959511.59	-64.78119833	17.71466833	1700	cpm	soil	0.25
311108.942	1959510.33	-64.781225	17.71465667	1790	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311103.264	1959508.17	-64.78127833	17.71463667	1810	cpm	soil	0.25
311100.778	1959507.09	-64.78130167	17.71462667	1880	cpm	soil	0.25
311098.291	1959505.82	-64.781325	17.714615	1720	cpm	soil	0.25
311097.221	1959504.91	-64.781335	17.71460667	1830	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311091.711	1959501.82	-64.78138667	17.71457833	2250	cpm	soil	0.25
311090.801	1959499.06	-64.781395	17.71455333	2140	cpm	soil	0.25
311090.066	1959496.12	-64.78140167	17.71452667	2320	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311090.338	1959487.45	-64.78139833	17.71444833	2130	cpm	soil	0.25
0*	0*	0*	0*	2380	cpm	soil	0.25
311092.051	1959481.71	-64.78138167	17.71439667	2640	cpm	soil	0.25
0*	0*	0*	0*	2580	cpm	soil	0.25
0*	0*	0*	0*	2350	cpm	soil	0.25
311094.978	1959473.38	-64.78135333	17.71432167	2180	cpm	soil	0.25
311095.836	1959470.61	-64.781345	17.71429667	2030	cpm	soil	0.25
311096.517	1959467.83	-64.78133833	17.71427167	1990	cpm	soil	0.25
311097.033	1959466.35	-64.78133333	17.71425833	2040	cpm	soil	0.25
0*	0*	0*	0*	2180	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
311098.01	1959457.49	-64.78132333	17.71417833	2350	cpm	soil	0.25
311097.807	1959454.72	-64.781325	17.71415333	2370	cpm	soil	0.25
311097.426	1959451.77	-64.78132833	17.71412667	2200	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311095.756	1959443.49	-64.78134333	17.71405167	2010	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
311093.588	1959438.53	-64.78136333	17.71400667	1870	cpm	soil	0.25
311092.327	1959436.14	-64.781375	17.713985	1800	cpm	soil	0.25
311091.783	1959434.67	-64.78138	17.71397167	1960	cpm	soil	0.25
311089.275	1959431.19	-64.78140333	17.71394	2000	cpm	soil	0.25
311088.382	1959430.28	-64.78141167	17.71393167	2040	cpm	soil	0.25
311086.229	1959426.98	-64.78143167	17.71390167	1940	cpm	soil	0.25
311084.44	1959424.78	-64.78144833	17.71388167	2040	cpm	soil	0.25
311082.126	1959423.14	-64.78147	17.71386667	2030	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
311076.592	1959417.47	-64.78152167	17.713815	2300	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
311074.983	1959415.65	-64.78153667	17.71379833	2280	cpm	soil	0.25
311074.983	1959415.65	-64.78153667	17.71379833	2270	cpm	soil	0.25
311074.983	1959415.65	-64.78153667	17.71379833	2090	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2060	cpm	soil	0.25
311074.983	1959415.65	-64.78153667	17.71379833	2170	cpm	soil	0.25
311074.092	1959414.92	-64.781545	17.71379167	2110	cpm	soil	0.25
311072.843	1959413.64	-64.78155667	17.71378	2240	cpm	soil	0.25
311071.953	1959413.09	-64.781565	17.713775	2260	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311068.386	1959409.8	-64.78159833	17.713745	2250	cpm	soil	0.25
311068.386	1959409.8	-64.78159833	17.713745	2110	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
311062.494	1959403.77	-64.78165333	17.71369	1960	cpm	soil	0.25
311059.82	1959401.4	-64.78167833	17.71366833	1920	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
0*	0*	0*	0*	2030	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
311055.358	1959397.01	-64.78172	17.71362833	2070	cpm	soil	0.25
0*	0*	0*	0*	2080	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311061.238	1959401.75	-64.781665	17.71367167	1950	cpm	soil	0.25
311062.312	1959403.22	-64.781655	17.713685	1950	cpm	soil	0.25
311062.846	1959403.58	-64.78165	17.71368833	2090	cpm	soil	0.25
311065.162	1959405.41	-64.78162833	17.713705	2110	cpm	soil	0.25
311066.769	1959407.05	-64.78161333	17.71372	2130	cpm	soil	0.25
311068.02	1959408.52	-64.78160167	17.71373333	2190	cpm	soil	0.25
311069.977	1959409.79	-64.78158333	17.713745	2300	cpm	soil	0.25
311070.693	1959410.7	-64.78157667	17.71375333	2340	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
311074.623	1959414.91	-64.78154	17.71379167	2330	cpm	soil	0.25
311076.585	1959416.74	-64.78152167	17.71380833	2300	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311084.262	1959424.6	-64.78145	17.71388	1950	cpm	soil	0.25
311086.403	1959426.61	-64.78143	17.71389833	1840	cpm	soil	0.25
311088.368	1959428.8	-64.78141167	17.71391833	1830	cpm	soil	0.25
311089.261	1959429.71	-64.78140333	17.71392667	1800	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311090.878	1959432.47	-64.78138833	17.71395167	1830	cpm	soil	0.25
311090.878	1959432.47	-64.78138833	17.71395167	1880	cpm	soil	0.25
311091.242	1959433.57	-64.781385	17.71396167	1810	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
311092	1959438.91	-64.78137833	17.71401	2030	cpm	soil	0.25
311092.732	1959441.49	-64.78137167	17.71403333	1940	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311094.34	1959443.32	-64.78135667	17.71405	1920	cpm	soil	0.25
311095.054	1959444.05	-64.78135	17.71405667	1950	cpm	soil	0.25
311097.037	1959448.09	-64.78133167	17.71409333	1860	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
311099.376	1959452.31	-64.78131	17.71413167	1930	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
311099.757	1959455.26	-64.78130667	17.71415833	2090	cpm	soil	0.25
311100.128	1959457.1	-64.78130333	17.714175	2180	cpm	soil	0.25
311100.492	1959458.2	-64.7813	17.714185	2220	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311100.382	1959465.21	-64.78130167	17.71424833	2330	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311098.658	1959469.84	-64.78131833	17.71429	2250	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
311096.265	1959478.54	-64.78134167	17.71436833	2090	cpm	soil	0.25
311095.925	1959480.01	-64.781345	17.71438167	1950	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311095.582	1959481.12	-64.78134833	17.71439167	1960	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
311094.395	1959486.49	-64.78136	17.71444	1960	cpm	soil	0.25
311093.712	1959489.07	-64.78136667	17.71446333	1910	cpm	soil	0.25
311093.192	1959490.19	-64.78137167	17.71447333	2000	cpm	soil	0.25
311091.279	1959493.52	-64.78139	17.71450333	2120	cpm	soil	0.25
311089.173	1959495.21	-64.78141	17.71451833	2110	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311078.958	1959499.36	-64.78150667	17.714555	2170	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
311071.344	1959498.14	-64.78157833	17.71454333	1970	cpm	soil	0.25
311070.278	1959497.6	-64.78158833	17.71453833	1970	cpm	soil	0.25
311066.903	1959495.97	-64.78162	17.71452333	2050	cpm	soil	0.25
311065.118	1959494.14	-64.78163667	17.71450667	2210	cpm	soil	0.25
311062.981	1959492.5	-64.78165667	17.71449167	2260	cpm	soil	0.25
311060.492	1959491.05	-64.78168	17.71447833	2480	cpm	soil	0.25
311057.829	1959489.97	-64.781705	17.71446833	2470	cpm	soil	0.25
311055.699	1959489.07	-64.781725	17.71446	2680	cpm	soil	0.25
0*	0*	0*	0*	2780	cpm	soil	0.25
311051.264	1959487.45	-64.78176667	17.714445	2760	cpm	soil	0.25
311048.957	1959486.55	-64.78178833	17.71443667	2610	cpm	soil	0.25
311046.651	1959485.83	-64.78181	17.71443	2430	cpm	soil	0.25
0*	0*	0*	0*	2460	cpm	soil	0.25
311042.214	1959484.03	-64.78185167	17.71441333	2600	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311037.6	1959482.23	-64.781895	17.71439667	2420	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
311033.159	1959480.05	-64.78193667	17.71437667	2180	cpm	soil	0.25
311032.094	1959479.51	-64.78194667	17.71437167	2130	cpm	soil	0.25
311029.429	1959478.25	-64.78197167	17.71436	2200	cpm	soil	0.25
311027.299	1959477.34	-64.78199167	17.71435167	2080	cpm	soil	0.25
311024.992	1959476.44	-64.78201333	17.71434333	2070	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
311015.052	1959472.29	-64.78210667	17.714305	2260	cpm	soil	0.25
311012.566	1959471.21	-64.78213	17.714295	2370	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
311005.465	1959468.14	-64.78219667	17.71426667	2310	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
310998.364	1959465.07	-64.78226333	17.71423833	2130	cpm	soil	0.25
310995.88	1959464.17	-64.78228667	17.71423	2130	cpm	soil	0.25
310993.571	1959463.09	-64.78230833	17.71422	2230	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310988.423	1959460.92	-64.78235667	17.7142	2170	cpm	soil	0.25
310987.181	1959460.38	-64.78236833	17.714195	2300	cpm	soil	0.25
310985.218	1959458.56	-64.78238667	17.71417833	2350	cpm	soil	0.25
310985.033	1959457.64	-64.78238833	17.71417	2380	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
310984.452	1959452.29	-64.78239333	17.71412167	2320	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
310981.933	1959447.7	-64.78241667	17.71408	2170	cpm	soil	0.25
310980.498	1959445.5	-64.78243	17.71406	1980	cpm	soil	0.25
310979.766	1959442.93	-64.78243667	17.71403667	1930	cpm	soil	0.25
310979.211	1959440.35	-64.78244167	17.71401333	1940	cpm	soil	0.25
310979.008	1959437.58	-64.78244333	17.71398833	2110	cpm	soil	0.25
310978.986	1959435.19	-64.78244333	17.71396667	2060	cpm	soil	0.25
310978.8	1959434.27	-64.782445	17.71395833	2320	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
310979.1	1959428.54	-64.78244167	17.71390667	2270	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
310979.418	1959424.85	-64.78243833	17.71387333	2300	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
310980.413	1959417.83	-64.78242833	17.71381	2140	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
310982.844	1959413.2	-64.782405	17.71376833	2460	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2450	cpm	soil	0.25
310980.315	1959407.5	-64.78242833	17.71371667	2470	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
310971.325	1959410.35	-64.78251333	17.71374167	2600	cpm	soil	0.25
310969.716	1959408.52	-64.78252833	17.713725	2630	cpm	soil	0.25
310968.81	1959406.13	-64.78253667	17.71370333	2620	cpm	soil	0.25
310968.607	1959403.37	-64.78253833	17.71367833	2590	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
310967.675	1959398.4	-64.78254667	17.71363333	2780	cpm	soil	0.25
310966.067	1959396.57	-64.78256167	17.71361667	2570	cpm	soil	0.25
310964.987	1959394.55	-64.78257167	17.71359833	2580	cpm	soil	0.25
310964.446	1959393.45	-64.78257667	17.71358833	2590	cpm	soil	0.25
310963.349	1959389.58	-64.78258667	17.71355333	2460	cpm	soil	0.25
310962.085	1959386.83	-64.78259833	17.71352833	2720	cpm	soil	0.25
310960.473	1959384.63	-64.78261333	17.71350833	2870	cpm	soil	0.25
310959.757	1959383.71	-64.78262	17.7135	3170	cpm	soil	0.25
0*	0*	0*	0*	3180	cpm	soil	0.25
0*	0*	0*	0*	2970	cpm	soil	0.25
310956.505	1959376.37	-64.78265	17.71343333	2970	cpm	soil	0.25
310956.482	1959373.97	-64.78265	17.71341167	3120	cpm	soil	0.25
310956.279	1959371.2	-64.78265167	17.71338667	3110	cpm	soil	0.25
310955.546	1959368.44	-64.78265833	17.71336167	2840	cpm	soil	0.25
310955.357	1959367.15	-64.78266	17.71335	2650	cpm	soil	0.25
310954.616	1959363.65	-64.78266667	17.71331833	2480	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
310955.999	1959360.32	-64.78265333	17.71328833	2750	cpm	soil	0.25
310957.946	1959360.49	-64.782635	17.71329	2560	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
310959.938	1959365.45	-64.78261667	17.713335	2370	cpm	soil	0.25
0*	0*	0*	0*	2380	cpm	soil	0.25
310962.432	1959367.45	-64.78259333	17.71335333	2600	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2810	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2890	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2990	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2880	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2780	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2770	cpm	soil	0.25
310963.666	1959367.07	-64.78258167	17.71335	2810	cpm	soil	0.25
310967.013	1959365.75	-64.78255	17.71333833	2770	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
310969.453	1959362.04	-64.78252667	17.713305	2650	cpm	soil	0.25
310967.499	1959361.13	-64.782545	17.71329667	2640	cpm	soil	0.25
310966.083	1959360.96	-64.78255833	17.713295	2680	cpm	soil	0.25
310962.728	1959361.36	-64.78259	17.71329833	2760	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310960.949	1959360.27	-64.78260667	17.71328833	2560	cpm	soil	0.25
310960.06	1959359.73	-64.782615	17.71328333	2750	cpm	soil	0.25
310960.06	1959359.73	-64.782615	17.71328333	2910	cpm	soil	0.25
310960.06	1959359.73	-64.782615	17.71328333	2970	cpm	soil	0.25
310960.577	1959358.25	-64.78261	17.71327	2600	cpm	soil	0.25
310960.391	1959357.33	-64.78261167	17.71326167	2560	cpm	soil	0.25
310959.313	1959355.49	-64.78262167	17.713245	2330	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310961.907	1959349.38	-64.78259667	17.71319	2180	cpm	soil	0.25
310964.202	1959348.99	-64.782575	17.71318667	2030	cpm	soil	0.25
310965.979	1959349.9	-64.78255833	17.713195	2060	cpm	soil	0.25
310966.869	1959350.63	-64.78255	17.71320167	2040	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
310967.965	1959354.3	-64.78254	17.713235	2160	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
310964.625	1959356.37	-64.78257167	17.71325333	2100	cpm	soil	0.25
310961.611	1959355.47	-64.7826	17.713245	2000	cpm	soil	0.25
310960.013	1959354.75	-64.782615	17.71323833	2010	cpm	soil	0.25
310959.465	1959352.91	-64.78262	17.71322167	1850	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
310959.966	1959349.77	-64.782615	17.71319333	1860	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310959.961	1959349.22	-64.782615	17.71318833	2100	cpm	soil	0.25
310959.961	1959349.22	-64.782615	17.71318833	2020	cpm	soil	0.25
310959.604	1959348.85	-64.78261833	17.713185	2300	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
310962.942	1959346.6	-64.78258667	17.713165	2640	cpm	soil	0.25
310964.876	1959345.48	-64.78256833	17.713155	2680	cpm	soil	0.25
310965.224	1959344.92	-64.782565	17.71315	2660	cpm	soil	0.25
310965.557	1959342.71	-64.78256167	17.71313	2670	cpm	soil	0.25
310964.657	1959341.05	-64.78257	17.713115	2710	cpm	soil	0.25
310963.577	1959339.03	-64.78258	17.71309667	2670	cpm	soil	0.25
310962.32	1959337.02	-64.78259167	17.71307833	2630	cpm	soil	0.25
310961.416	1959334.81	-64.7826	17.71305833	2600	cpm	soil	0.25
310960.334	1959332.61	-64.78261	17.71303833	2530	cpm	soil	0.25
310958.899	1959330.41	-64.78262333	17.71301833	2750	cpm	soil	0.25
310957.638	1959328.02	-64.782635	17.71299667	2820	cpm	soil	0.25
310956.203	1959325.82	-64.78264833	17.71297667	2740	cpm	soil	0.25
310955.309	1959324.72	-64.78265667	17.71296667	2720	cpm	soil	0.25
310953.156	1959321.42	-64.78267667	17.71293667	2750	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
310951.356	1959318.12	-64.78269333	17.71290667	2660	cpm	soil	0.25
310949.594	1959318.69	-64.78271	17.71291167	2890	cpm	soil	0.25
0*	0*	0*	0*	2840	cpm	soil	0.25
310947.322	1959321.48	-64.78273167	17.71293667	2690	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310951.437	1959326.61	-64.78269333	17.71298333	2790	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
310954.663	1959331.19	-64.78266333	17.713025	2810	cpm	soil	0.25
310955.559	1959332.47	-64.782655	17.71303667	2620	cpm	soil	0.25
310957.349	1959334.85	-64.78263833	17.71305833	2620	cpm	soil	0.25
310958.435	1959337.42	-64.78262833	17.71308167	2580	cpm	soil	0.25
310958.813	1959340	-64.782625	17.713105	2610	cpm	soil	0.25
310958.114	1959340.93	-64.78263167	17.71311333	2450	cpm	soil	0.25
310955.285	1959340.96	-64.78265833	17.71311333	2590	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
310951.345	1959335.65	-64.782695	17.713065	2270	cpm	soil	0.25
310950.626	1959334.36	-64.78270167	17.71305333	2430	cpm	soil	0.25
310949.55	1959332.71	-64.78271167	17.71303833	2450	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
310949.189	1959331.98	-64.782715	17.71303167	2610	cpm	soil	0.25
310948.113	1959330.33	-64.782725	17.71301667	2790	cpm	soil	0.25
310947.209	1959328.31	-64.78273333	17.71299833	2750	cpm	soil	0.25
310947.026	1959327.57	-64.782735	17.71299167	2830	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
310944.32	1959321.88	-64.78276	17.71294	2660	cpm	soil	0.25
310943.602	1959320.78	-64.78276667	17.71293	2770	cpm	soil	0.25
310940.565	1959317.48	-64.782795	17.7129	2660	cpm	soil	0.25
310938.953	1959315.29	-64.78281	17.71288	2570	cpm	soil	0.25
310938.235	1959314.19	-64.78281667	17.71287	2530	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
310934.313	1959310.72	-64.78285333	17.71283833	2290	cpm	soil	0.25
310932.884	1959309.26	-64.78286667	17.712825	2060	cpm	soil	0.25
310931.631	1959307.61	-64.78287833	17.71281	2130	cpm	soil	0.25
310930.738	1959306.69	-64.78288667	17.71280167	2120	cpm	soil	0.25
310929.132	1959305.05	-64.78290167	17.71278667	2260	cpm	soil	0.25
310925.545	1959299.73	-64.782935	17.71273833	2470	cpm	soil	0.25
310926.233	1959297.7	-64.78292833	17.71272	2580	cpm	soil	0.25
0*	0*	0*	0*	2670	cpm	soil	0.25
310929.779	1959298.77	-64.782895	17.71273	2520	cpm	soil	0.25
310930.674	1959299.87	-64.78288667	17.71274	2400	cpm	soil	0.25
310932.111	1959302.25	-64.78287333	17.71276167	2710	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2530	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2540	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2570	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2520	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2490	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2490	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2450	cpm	soil	0.25
310933.009	1959303.72	-64.782865	17.712775	2500	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310934.805	1959306.65	-64.78284833	17.71280167	2600	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
0*	0*	0*	0*	2510	cpm	soil	0.25
310938.57	1959312.15	-64.78281333	17.71285167	2690	cpm	soil	0.25
310940.899	1959315.45	-64.78279167	17.71288167	2840	cpm	soil	0.25
310942.863	1959317.46	-64.78277333	17.7129	2780	cpm	soil	0.25
310943.928	1959317.82	-64.78276333	17.71290333	2770	cpm	soil	0.25
310946.737	1959315.77	-64.78273667	17.712885	2680	cpm	soil	0.25
310947.435	1959314.84	-64.78273	17.71287667	2430	cpm	soil	0.25
0*	0*	0*	0*	2560	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
310955.272	1959320.85	-64.78265667	17.71293167	2360	cpm	soil	0.25
310955.993	1959322.32	-64.78265	17.712945	2620	cpm	soil	0.25
310957.787	1959325.07	-64.78263333	17.71297	2610	cpm	soil	0.25
310960.299	1959328.92	-64.78261	17.713005	2550	cpm	soil	0.25
310961.736	1959331.3	-64.78259667	17.71302667	2820	cpm	soil	0.25
310963.35	1959333.69	-64.78258167	17.71304833	2660	cpm	soil	0.25
310964.964	1959336.07	-64.78256667	17.71307	2520	cpm	soil	0.25
310966.397	1959338.09	-64.78255333	17.71308833	2850	cpm	soil	0.25
310967.113	1959339	-64.78254667	17.71309667	2810	cpm	soil	0.25
310968.888	1959339.72	-64.78253	17.71310333	2830	cpm	soil	0.25
310970.292	1959338.6	-64.78251667	17.71309333	2700	cpm	soil	0.25
310972.408	1959338.03	-64.78249667	17.71308833	3010	cpm	soil	0.25
310975.399	1959336.52	-64.78246833	17.713075	2910	cpm	soil	0.25
310977.159	1959335.59	-64.78245167	17.71306667	3110	cpm	soil	0.25
310978.563	1959334.47	-64.78243833	17.71305667	3130	cpm	soil	0.25
310980.674	1959333.34	-64.78241833	17.71304667	2890	cpm	soil	0.25
310982.251	1959331.85	-64.78240333	17.71303333	3120	cpm	soil	0.25
310984.185	1959330.72	-64.782385	17.71302333	2730	cpm	soil	0.25
0*	0*	0*	0*	2780	cpm	soil	0.25
310988.582	1959328.28	-64.78234333	17.71300167	2600	cpm	soil	0.25
310991.225	1959327.34	-64.78231833	17.71299333	2570	cpm	soil	0.25
0*	0*	0*	0*	2890	cpm	soil	0.25
310996.686	1959325.25	-64.78226667	17.712975	2660	cpm	soil	0.25
310999.155	1959324.49	-64.78224333	17.71296833	2650	cpm	soil	0.25
0*	0*	0*	0*	2450	cpm	soil	0.25
311001.943	1959320.22	-64.78221667	17.71293	2470	cpm	soil	0.25
311003.884	1959319.84	-64.78219833	17.71292667	2420	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
311007.46	1959324.05	-64.782165	17.712965	2420	cpm	soil	0.25
311009.078	1959326.8	-64.78215	17.71299	2550	cpm	soil	0.25
311009.799	1959328.27	-64.78214333	17.71300333	2380	cpm	soil	0.25
311010.534	1959331.21	-64.78213667	17.71303	2430	cpm	soil	0.25
311010.017	1959332.69	-64.78214167	17.71304333	2760	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
311006.993	1959330.69	-64.78217	17.713025	2690	cpm	soil	0.25
311006.438	1959328.11	-64.782175	17.71300167	2510	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311005.881	1959325.35	-64.78218	17.71297667	2530	cpm	soil	0.25
311005.146	1959322.41	-64.78218667	17.71295	2570	cpm	soil	0.25
311004.602	1959320.94	-64.78219167	17.71293667	2530	cpm	soil	0.25
311001.899	1959315.61	-64.78221667	17.71288833	2590	cpm	soil	0.25
311001.182	1959314.51	-64.78222333	17.71287833	2600	cpm	soil	0.25
311000.112	1959313.6	-64.78223333	17.71287	2440	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
310994.94	1959308.85	-64.78228167	17.71282667	2240	cpm	soil	0.25
310993.154	1959307.02	-64.78229833	17.71281	2330	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
310989.23	1959303.37	-64.782335	17.71277667	2580	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
310986.36	1959298.97	-64.78236167	17.71273667	2580	cpm	soil	0.25
310985.453	1959296.58	-64.78237	17.712715	2880	cpm	soil	0.25
0*	0*	0*	0*	2970	cpm	soil	0.25
310983.463	1959291.8	-64.78238833	17.71267167	3050	cpm	soil	0.25
310982.563	1959290.15	-64.78239667	17.71265667	3040	cpm	soil	0.25
310982.203	1959289.42	-64.7824	17.71265	2870	cpm	soil	0.25
310980.764	1959286.85	-64.78241333	17.71262667	2910	cpm	soil	0.25
310978.956	1959282.62	-64.78243	17.71258833	2910	cpm	soil	0.25
310977.879	1959280.97	-64.78244	17.71257333	2840	cpm	soil	0.25
310976.449	1959279.33	-64.78245333	17.71255833	2900	cpm	soil	0.25
0*	0*	0*	0*	2840	cpm	soil	0.25
0*	0*	0*	0*	2800	cpm	soil	0.25
310972.345	1959275.31	-64.78249167	17.71252167	2880	cpm	soil	0.25
0*	0*	0*	0*	2820	cpm	soil	0.25
310969.141	1959273.12	-64.78252167	17.71250167	2840	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
310968.205	1959267.6	-64.78253	17.71245167	2640	cpm	soil	0.25
0*	0*	0*	0*	2680	cpm	soil	0.25
310965.333	1959263.01	-64.78255667	17.71241	2730	cpm	soil	0.25
0*	0*	0*	0*	2850	cpm	soil	0.25
310962.285	1959258.61	-64.782585	17.71237	2850	cpm	soil	0.25
310960.671	1959256.23	-64.7826	17.71234833	2590	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
0*	0*	0*	0*	2720	cpm	soil	0.25
310954.575	1959247.25	-64.78265667	17.71226667	2650	cpm	soil	0.25
310953.322	1959245.6	-64.78266833	17.71225167	2720	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
310951.701	1959242.48	-64.78268333	17.71222333	2590	cpm	soil	0.25
310951.493	1959239.16	-64.782685	17.71219333	2620	cpm	soil	0.25
310950.943	1959237.14	-64.78269	17.712175	2590	cpm	soil	0.25
310950.22	1959235.48	-64.78269667	17.71216	2770	cpm	soil	0.25
0*	0*	0*	0*	2950	cpm	soil	0.25
310949.145	1959234.02	-64.78270667	17.71214667	2960	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310948.069	1959232.37	-64.78271667	17.71213167	3070	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
310945.921	1959229.62	-64.78273667	17.71210667	3290	cpm	soil	0.25
0*	0*	0*	0*	3330	cpm	soil	0.25
310944.297	1959226.13	-64.78275167	17.712075	3100	cpm	soil	0.25
310943.749	1959224.29	-64.78275667	17.71205833	2720	cpm	soil	0.25
310942.674	1959222.83	-64.78276667	17.712045	2710	cpm	soil	0.25
0*	0*	0*	0*	2760	cpm	soil	0.25
0*	0*	0*	0*	2590	cpm	soil	0.25
310939.984	1959218.79	-64.78279167	17.71200833	2530	cpm	soil	0.25
310938.545	1959216.22	-64.782805	17.711985	2410	cpm	soil	0.25
310937.819	1959214.2	-64.78281167	17.71196667	2560	cpm	soil	0.25
310936.919	1959212.55	-64.78282	17.71195167	2400	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
310934.236	1959209.26	-64.782845	17.71192167	2770	cpm	soil	0.25
310934.236	1959209.26	-64.782845	17.71192167	2600	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
310932.079	1959205.59	-64.782865	17.71188833	2620	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
310928.848	1959200.45	-64.782895	17.71184167	2510	cpm	soil	0.25
310928.132	1959199.54	-64.78290167	17.71183333	2420	cpm	soil	0.25
310926.513	1959196.6	-64.78291667	17.71180667	2700	cpm	soil	0.25
0*	0*	0*	0*	2720	cpm	soil	0.25
0*	0*	0*	0*	2900	cpm	soil	0.25
310922.571	1959191.1	-64.78295333	17.71175667	2640	cpm	soil	0.25
310922.034	1959190.37	-64.78295833	17.71175	2630	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
310920.075	1959188.91	-64.78297667	17.71173667	2460	cpm	soil	0.25
310918.469	1959187.27	-64.78299167	17.71172167	2650	cpm	soil	0.25
310916.865	1959185.99	-64.78300667	17.71171	2580	cpm	soil	0.25
310916.151	1959185.26	-64.78301333	17.71170333	2620	cpm	soil	0.25
310914.182	1959182.7	-64.78303167	17.71168	2880	cpm	soil	0.25
310913.818	1959181.59	-64.783035	17.71167	2920	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
310912.178	1959176.44	-64.78305	17.71162333	2610	cpm	soil	0.25
310911.817	1959175.71	-64.78305333	17.71161667	2600	cpm	soil	0.25
310910.025	1959173.14	-64.78307	17.71159333	2590	cpm	soil	0.25
0*	0*	0*	0*	2650	cpm	soil	0.25
310908.232	1959170.58	-64.78308667	17.71157	2700	cpm	soil	0.25
310907.161	1959169.48	-64.78309667	17.71156	2740	cpm	soil	0.25
310905.735	1959168.2	-64.78311	17.71154833	2740	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310901.789	1959162.34	-64.78314667	17.711495	2640	cpm	soil	0.25
310900.536	1959160.69	-64.78315833	17.71148	2920	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
310898.036	1959158.13	-64.78318167	17.71145667	2870	cpm	soil	0.25
310895.712	1959155.38	-64.78320333	17.71143167	2770	cpm	soil	0.25
0*	0*	0*	0*	2770	cpm	soil	0.25
0*	0*	0*	0*	2800	cpm	soil	0.25
310890.357	1959150.08	-64.78325333	17.71138333	2770	cpm	soil	0.25
0*	0*	0*	0*	2810	cpm	soil	0.25
310888.385	1959147.15	-64.78327167	17.71135667	2990	cpm	soil	0.25
0*	0*	0*	0*	2920	cpm	soil	0.25
310885.162	1959142.94	-64.78330167	17.71131833	2730	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2590	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2410	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2480	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2590	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2640	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2570	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2630	cpm	soil	0.25
0*	0*	0*	0*	2770	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2730	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2790	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2750	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2630	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2580	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2750	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2690	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
310880.515	1959137.63	-64.783345	17.71127	2910	cpm	soil	0.25
0*	0*	0*	0*	2860	cpm	soil	0.25
310876.757	1959132.87	-64.78338	17.71122667	2640	cpm	soil	0.25
310875.147	1959130.86	-64.783395	17.71120833	2710	cpm	soil	0.25
310873.886	1959128.47	-64.78340667	17.71118667	2730	cpm	soil	0.25
310873.345	1959127.37	-64.78341167	17.71117667	2970	cpm	soil	0.25
0*	0*	0*	0*	2730	cpm	soil	0.25
310870.823	1959122.41	-64.783435	17.71113167	2620	cpm	soil	0.25
310870.799	1959119.83	-64.783435	17.71110833	2520	cpm	soil	0.25
310870.596	1959117.07	-64.78343667	17.71108333	2660	cpm	soil	0.25
310870.746	1959114.3	-64.783435	17.71105833	2720	cpm	soil	0.25
310869.313	1959112.28	-64.78344833	17.71104	2510	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
310865.969	1959113.97	-64.78348	17.711055	2850	cpm	soil	0.25
310865.803	1959115.08	-64.78348167	17.711065	2800	cpm	soil	0.25
310864.777	1959118.78	-64.78349167	17.71109833	3310	cpm	soil	0.25
310863.741	1959121.37	-64.78350167	17.71112167	3200	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310862.524	1959123.6	-64.78351333	17.71114167	2900	cpm	soil	0.25
0*	0*	0*	0*	2860	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
310862.941	1959130.24	-64.78351	17.71120167	2820	cpm	soil	0.25
310864.373	1959132.07	-64.78349667	17.71121833	2780	cpm	soil	0.25
310865.444	1959133.16	-64.78348667	17.71122833	2750	cpm	soil	0.25
0*	0*	0*	0*	2730	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
0*	0*	0*	0*	2590	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
310870.611	1959137.36	-64.78343833	17.71126667	2640	cpm	soil	0.25
310872.747	1959138.81	-64.78341833	17.71128	2730	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
310876.139	1959142.29	-64.78338667	17.71131167	2700	cpm	soil	0.25
310878.274	1959143.74	-64.78336667	17.711325	2850	cpm	soil	0.25
310880.408	1959145.01	-64.78334667	17.71133667	2830	cpm	soil	0.25
0*	0*	0*	0*	2810	cpm	soil	0.25
0*	0*	0*	0*	2560	cpm	soil	0.25
310886.097	1959148.28	-64.78329333	17.71136667	2580	cpm	soil	0.25
310887.531	1959150.3	-64.78328	17.711385	2700	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
0*	0*	0*	0*	2760	cpm	soil	0.25
310893.631	1959159.65	-64.78322333	17.71147	2680	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
310896.144	1959163.68	-64.7832	17.71150667	2790	cpm	soil	0.25
310894.919	1959164.98	-64.78321167	17.71151833	2850	cpm	soil	0.25
310893.315	1959163.71	-64.78322667	17.71150667	3080	cpm	soil	0.25
310891.885	1959162.06	-64.78324	17.71149167	3020	cpm	soil	0.25
310889.746	1959160.24	-64.78326	17.711475	3320	cpm	soil	0.25
0*	0*	0*	0*	3440	cpm	soil	0.25
310886.895	1959157.87	-64.78328667	17.71145333	3380	cpm	soil	0.25
0*	0*	0*	0*	3230	cpm	soil	0.25
310883.49	1959153.1	-64.78331833	17.71141	2990	cpm	soil	0.25
310881.884	1959151.46	-64.78333333	17.711395	2680	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
310879.543	1959147.05	-64.783355	17.711355	2470	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
310876.158	1959144.32	-64.78338667	17.71133	2730	cpm	soil	0.25
310873.317	1959143.05	-64.78341333	17.71131833	2650	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
310868.353	1959141.62	-64.78346	17.711305	2380	cpm	soil	0.25
310864.978	1959139.99	-64.78349167	17.71129	2510	cpm	soil	0.25
310862.671	1959139.09	-64.78351333	17.71128167	2470	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
0*	0*	0*	0*	2430	cpm	soil	0.25
310855.606	1959139.9	-64.78358	17.71128833	2760	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2710	cpm	soil	0.25
310852.603	1959140.11	-64.78360833	17.71129	2800	cpm	soil	0.25
310850.84	1959140.68	-64.783625	17.711295	2570	cpm	soil	0.25
0*	0*	0*	0*	2550	cpm	soil	0.25
310846.961	1959141.83	-64.78366167	17.711305	2370	cpm	soil	0.25
310845.38	1959142.95	-64.78367667	17.711315	2510	cpm	soil	0.25
0*	0*	0*	0*	2670	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
310841.888	1959147.59	-64.78371	17.71135667	2600	cpm	soil	0.25
310840.493	1959149.63	-64.78372333	17.711375	2640	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
0*	0*	0*	0*	2940	cpm	soil	0.25
0*	0*	0*	0*	3050	cpm	soil	0.25
0*	0*	0*	0*	2810	cpm	soil	0.25
310835.833	1959161.67	-64.78376833	17.71148333	2960	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
310834.823	1959167.03	-64.78377833	17.71153167	2700	cpm	soil	0.25
310834.48	1959168.14	-64.78378167	17.71154167	2550	cpm	soil	0.25
0*	0*	0*	0*	2900	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
0*	0*	0*	0*	2820	cpm	soil	0.25
0*	0*	0*	0*	2880	cpm	soil	0.25
310831.417	1959180.71	-64.78381167	17.711655	2880	cpm	soil	0.25
310830.718	1959181.64	-64.78381833	17.71166333	2770	cpm	soil	0.25
310829.334	1959184.79	-64.78383167	17.71169167	2570	cpm	soil	0.25
310829.167	1959185.9	-64.78383333	17.71170167	2570	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
310827.445	1959190.71	-64.78385	17.711745	2710	cpm	soil	0.25
310827.1	1959191.64	-64.78385333	17.71175333	2550	cpm	soil	0.25
310826.419	1959194.41	-64.78386	17.71177833	2350	cpm	soil	0.25
310825.906	1959196.26	-64.783865	17.711795	2340	cpm	soil	0.25
310825.736	1959197	-64.78386667	17.71180167	2380	cpm	soil	0.25
310826.118	1959199.95	-64.78386333	17.71182833	2460	cpm	soil	0.25
310826.843	1959201.79	-64.78385667	17.711845	2420	cpm	soil	0.25
310827.916	1959203.07	-64.78384667	17.71185667	2390	cpm	soil	0.25
310829.517	1959204.16	-64.78383167	17.71186667	2340	cpm	soil	0.25
310830.406	1959204.7	-64.78382333	17.71187167	2270	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
310835.39	1959208.16	-64.78377667	17.71190333	2120	cpm	soil	0.25
310838.409	1959209.61	-64.78374833	17.71191667	1860	cpm	soil	0.25
310840.541	1959210.7	-64.78372833	17.71192667	1790	cpm	soil	0.25
310842.673	1959211.78	-64.78370833	17.71193667	1790	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
310846.23	1959213.96	-64.783675	17.71195667	1980	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310849.253	1959215.78	-64.78364667	17.71197333	1930	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310850.855	1959216.87	-64.78363167	17.71198333	1990	cpm	soil	0.25
310852.815	1959218.51	-64.78361333	17.71199833	2080	cpm	soil	0.25
310853.888	1959219.79	-64.78360333	17.71201	2110	cpm	soil	0.25
310855.315	1959221.07	-64.78359	17.71202167	2140	cpm	soil	0.25
310857.109	1959223.82	-64.78357333	17.71204667	2150	cpm	soil	0.25
310856.785	1959226.96	-64.78357667	17.712075	2110	cpm	soil	0.25
310855.924	1959229.37	-64.783585	17.71209667	2310	cpm	soil	0.25
310855.236	1959231.4	-64.78359167	17.712115	2120	cpm	soil	0.25
310854.546	1959233.25	-64.78359833	17.71213167	2270	cpm	soil	0.25
310853.858	1959235.29	-64.783605	17.71215	2180	cpm	soil	0.25
310853.869	1959236.4	-64.783605	17.71216	2120	cpm	soil	0.25
310854.427	1959239.34	-64.7836	17.71218667	2220	cpm	soil	0.25
310855.153	1959241.37	-64.78359333	17.712205	2480	cpm	soil	0.25
310855.516	1959242.28	-64.78359	17.71221333	2230	cpm	soil	0.25
310856.074	1959245.23	-64.783585	17.71224	2290	cpm	soil	0.25
310856.454	1959247.99	-64.78358167	17.712265	2320	cpm	soil	0.25
310856.128	1959250.95	-64.783585	17.71229167	2280	cpm	soil	0.25
310856.676	1959252.79	-64.78358	17.71230833	2220	cpm	soil	0.25
310857.051	1959255	-64.78357667	17.71232833	2440	cpm	soil	0.25
310857.063	1959256.29	-64.78357667	17.71234	2590	cpm	soil	0.25
310856.907	1959258.51	-64.78357833	17.71236	2740	cpm	soil	0.25
310856.222	1959260.91	-64.783585	17.71238167	2520	cpm	soil	0.25
310855.197	1959264.61	-64.783595	17.712415	2460	cpm	soil	0.25
310855.043	1959267.01	-64.78359667	17.71243667	2370	cpm	soil	0.25
310855.232	1959268.3	-64.783595	17.71244833	2580	cpm	soil	0.25
310855.443	1959271.99	-64.78359333	17.71248167	2600	cpm	soil	0.25
310855.468	1959274.57	-64.78359333	17.712505	2500	cpm	soil	0.25
310855.135	1959276.79	-64.78359667	17.712525	2500	cpm	soil	0.25
310854.272	1959279.01	-64.783605	17.712545	2440	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
310853.056	1959281.23	-64.78361667	17.712565	2330	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
310850.108	1959287.35	-64.783645	17.71262	2410	cpm	soil	0.25
310849.763	1959288.27	-64.78364833	17.71262833	2180	cpm	soil	0.25
310848.021	1959291.06	-64.783665	17.71265333	2220	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
310845.767	1959295.69	-64.78368667	17.712695	2200	cpm	soil	0.25
310845.425	1959296.99	-64.78369	17.71270667	2250	cpm	soil	0.25
310845.084	1959298.28	-64.78369333	17.71271833	2320	cpm	soil	0.25
310843.88	1959301.8	-64.783705	17.71275	2310	cpm	soil	0.25
0*	0*	0*	0*	2180	cpm	soil	0.25
310842.155	1959306.43	-64.78372167	17.71279167	2250	cpm	soil	0.25
310840.939	1959308.65	-64.78373333	17.71281167	2300	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
0*	0*	0*	0*	2730	cpm	soil	0.25
310837.982	1959313.84	-64.78376167	17.71285833	2780	cpm	soil	0.25
310837.459	1959314.59	-64.78376667	17.712865	2680	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310835.171	1959315.72	-64.78378833	17.712875	2740	cpm	soil	0.25
0*	0*	0*	0*	2430	cpm	soil	0.25
310832.362	1959317.77	-64.783815	17.71289333	2270	cpm	soil	0.25
310831.312	1959318.89	-64.783825	17.71290333	2220	cpm	soil	0.25
310830.797	1959320.55	-64.78383	17.71291833	2350	cpm	soil	0.25
310830.286	1959322.59	-64.783835	17.71293667	2530	cpm	soil	0.25
310829.61	1959325.91	-64.78384167	17.71296667	2450	cpm	soil	0.25
310829.277	1959328.13	-64.783845	17.71298667	2360	cpm	soil	0.25
310828.582	1959329.43	-64.78385167	17.71299833	2230	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
310823.459	1959329.85	-64.7839	17.71300167	2150	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
310817.975	1959329.53	-64.78395167	17.71299833	2240	cpm	soil	0.25
310814.439	1959329.56	-64.783985	17.71299833	2320	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
310810.545	1959329.05	-64.78402167	17.71299333	2580	cpm	soil	0.25
0*	0*	0*	0*	2680	cpm	soil	0.25
0*	0*	0*	0*	2880	cpm	soil	0.25
310805.594	1959329.09	-64.78406833	17.71299333	3010	cpm	soil	0.25
310806.492	1959330.56	-64.78406	17.71300667	2700	cpm	soil	0.25
310808.274	1959332.02	-64.78404333	17.71302	2530	cpm	soil	0.25
310810.406	1959333.11	-64.78402333	17.71303	2660	cpm	soil	0.25
310811.294	1959333.47	-64.784015	17.71303333	2800	cpm	soil	0.25
310814.315	1959335.1	-64.78398667	17.71304833	2680	cpm	soil	0.25
310815.913	1959335.82	-64.78397167	17.713055	2590	cpm	soil	0.25
310816.804	1959336.55	-64.78396333	17.71306167	2590	cpm	soil	0.25
0*	0*	0*	0*	2450	cpm	soil	0.25
310820.002	1959338.18	-64.78393333	17.71307667	2330	cpm	soil	0.25
310820.709	1959338.17	-64.78392667	17.71307667	2310	cpm	soil	0.25
310823.193	1959339.07	-64.78390333	17.713085	2090	cpm	soil	0.25
310824.259	1959339.62	-64.78389333	17.71309	2230	cpm	soil	0.25
310826.921	1959340.7	-64.78386833	17.7131	2430	cpm	soil	0.25
310828.878	1959341.97	-64.78385	17.71311167	2450	cpm	soil	0.25
310831.007	1959342.69	-64.78383	17.71311833	2480	cpm	soil	0.25
310833.128	1959342.67	-64.78381	17.71311833	2320	cpm	soil	0.25
310834.185	1959342.29	-64.7838	17.713115	2340	cpm	soil	0.25
310836.123	1959341.53	-64.78378167	17.71310833	2190	cpm	soil	0.25
310838.234	1959340.41	-64.78376167	17.71309833	2060	cpm	soil	0.25
310840.17	1959339.47	-64.78374333	17.71309	2020	cpm	soil	0.25
310842.278	1959337.97	-64.78372333	17.71307667	2100	cpm	soil	0.25
310844.39	1959337.03	-64.78370333	17.71306833	2020	cpm	soil	0.25
310847.567	1959336.44	-64.78367333	17.71306333	1930	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
310851.462	1959336.96	-64.78363667	17.71306833	1950	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310852.351	1959337.51	-64.78362833	17.71307333	1970	cpm	soil	0.25
310855.544	1959338.58	-64.78359833	17.71308333	2000	cpm	soil	0.25
310856.255	1959338.94	-64.78359167	17.71308667	1910	cpm	soil	0.25
310857.14	1959339.12	-64.78358333	17.71308833	1860	cpm	soil	0.25
310860.149	1959339.46	-64.783555	17.71309167	1860	cpm	soil	0.25
310861.567	1959339.82	-64.78354167	17.713095	1970	cpm	soil	0.25
310865.649	1959341.44	-64.78350333	17.71311	1960	cpm	soil	0.25
310869.731	1959343.06	-64.783465	17.713125	1980	cpm	soil	0.25
310870.974	1959343.6	-64.78345333	17.71313	2000	cpm	soil	0.25
310874.177	1959345.78	-64.78342333	17.71315	1980	cpm	soil	0.25
310875.596	1959346.32	-64.78341	17.713155	1950	cpm	soil	0.25
310879.5	1959347.76	-64.78337333	17.71316833	1980	cpm	soil	0.25
310881.807	1959348.66	-64.78335167	17.71317667	2020	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
310882.185	1959351.24	-64.78334833	17.7132	2030	cpm	soil	0.25
310880.088	1959353.85	-64.78336833	17.71322333	2090	cpm	soil	0.25
310879.041	1959355.33	-64.78337833	17.71323667	2030	cpm	soil	0.25
310877.814	1959356.45	-64.78339	17.71324667	2050	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
310874.471	1959358.14	-64.78342167	17.71326167	2000	cpm	soil	0.25
310872.354	1959358.72	-64.78344167	17.71326667	2000	cpm	soil	0.25
310870.767	1959359.1	-64.78345667	17.71327	2030	cpm	soil	0.25
310870.767	1959359.1	-64.78345667	17.71327	1890	cpm	soil	0.25
310870.06	1959359.11	-64.78346333	17.71327	1960	cpm	soil	0.25
310867.942	1959359.49	-64.78348333	17.71327333	1930	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
310863.17	1959359.72	-64.78352833	17.713275	1850	cpm	soil	0.25
310861.933	1959359.74	-64.78354	17.713275	1870	cpm	soil	0.25
310858.763	1959361.06	-64.78357	17.71328667	1990	cpm	soil	0.25
310856.112	1959361.27	-64.783595	17.71328833	2080	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
310851.518	1959361.5	-64.78363833	17.71329	1980	cpm	soil	0.25
310849.394	1959361.33	-64.78365833	17.71328833	1990	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	2030	cpm	soil	0.25
310843.713	1959358.8	-64.78371167	17.713265	1930	cpm	soil	0.25
310841.759	1959357.9	-64.78373	17.71325667	1980	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310837.143	1959355.91	-64.78377333	17.71323833	1890	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310832.528	1959353.93	-64.78381667	17.71322	1850	cpm	soil	0.25
310830.397	1959353.03	-64.78383667	17.71321167	1790	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310826.305	1959350.3	-64.783875	17.71318667	1790	cpm	soil	0.25
310824.52	1959348.47	-64.78389167	17.71317	1850	cpm	soil	0.25
310822.381	1959346.64	-64.78391167	17.71315333	1960	cpm	soil	0.25
310820.418	1959344.82	-64.78393	17.71313667	2070	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310818.279	1959342.99	-64.78395	17.71312	2090	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
310814.896	1959340.44	-64.78398167	17.71309667	2290	cpm	soil	0.25
310812.403	1959338.62	-64.784005	17.71308	2350	cpm	soil	0.25
310809.916	1959337.35	-64.78402833	17.71306833	2210	cpm	soil	0.25
310807.973	1959337.56	-64.78404667	17.71307	2270	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
310808.71	1959340.69	-64.78404	17.71309833	2300	cpm	soil	0.25
310811.574	1959344.35	-64.78401333	17.71313167	2230	cpm	soil	0.25
310813.711	1959345.99	-64.78399333	17.71314667	2150	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
310818.685	1959348.52	-64.78394667	17.71317	2230	cpm	soil	0.25
310820.999	1959350.16	-64.783925	17.713185	2030	cpm	soil	0.25
310822.962	1959351.99	-64.78390667	17.71320167	2140	cpm	soil	0.25
310825.274	1959353.44	-64.783885	17.713215	1980	cpm	soil	0.25
310826.342	1959354.17	-64.783875	17.71322167	2070	cpm	soil	0.25
310830.254	1959356.53	-64.78383833	17.71324333	2230	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
310833.469	1959360.01	-64.78380833	17.713275	2080	cpm	soil	0.25
310835.251	1959361.47	-64.78379167	17.71328833	2070	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
310838.638	1959364.38	-64.78376	17.713315	2310	cpm	soil	0.25
310839.893	1959366.22	-64.78374833	17.71333167	2280	cpm	soil	0.25
310841.325	1959368.05	-64.783735	17.71334833	2290	cpm	soil	0.25
310842.933	1959369.88	-64.78372	17.713365	2220	cpm	soil	0.25
310843.824	1959370.61	-64.78371167	17.71337167	2300	cpm	soil	0.25
310846.669	1959372.24	-64.783685	17.71338667	2080	cpm	soil	0.25
310848.969	1959372.4	-64.78366333	17.71338833	1910	cpm	soil	0.25
310850.915	1959372.57	-64.783645	17.71339	1930	cpm	soil	0.25
310853.046	1959373.47	-64.783625	17.71339833	1780	cpm	soil	0.25
310853.933	1959373.83	-64.78361667	17.71340167	1820	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1950	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1790	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1780	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1690	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1620	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1630	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1650	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1610	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1640	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1640	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1660	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1620	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1650	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310854.645	1959374.38	-64.78361	17.71340667	1590	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1590	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1490	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1560	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1470	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1430	cpm	soil	0.25
0*	0*	0*	0*	1440	cpm	soil	0.25
0*	0*	0*	0*	1430	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1520	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1560	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1540	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1520	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1590	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1620	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1530	cpm	soil	0.25
310856.594	1959374.73	-64.78359167	17.71341	1510	cpm	soil	0.25
310859.076	1959375.44	-64.78356833	17.71341667	1640	cpm	soil	0.25
310861.208	1959376.53	-64.78354833	17.71342667	1590	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310865.107	1959377.6	-64.78351167	17.71343667	1620	cpm	soil	0.25
310865.274	1959376.49	-64.78351	17.71342667	1710	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
310863.979	1959370.42	-64.78352167	17.71337167	1840	cpm	soil	0.25
310863.788	1959368.94	-64.78352333	17.71335833	1990	cpm	soil	0.25
310864.46	1959365.25	-64.78351667	17.713325	1920	cpm	soil	0.25
310866.566	1959363.57	-64.78349667	17.71331	2030	cpm	soil	0.25
310868.859	1959362.99	-64.783475	17.713305	2030	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
310873.972	1959361.47	-64.78342667	17.71329167	1800	cpm	soil	0.25
310876.618	1959360.89	-64.78340167	17.71328667	1930	cpm	soil	0.25
310879.088	1959360.31	-64.78337833	17.71328167	2070	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
310884.024	1959358.79	-64.78333167	17.71326833	1990	cpm	soil	0.25
310886.328	1959359.32	-64.78331	17.71327333	1970	cpm	soil	0.25
310887.228	1959360.97	-64.78330167	17.71328833	1950	cpm	soil	0.25
310887.411	1959361.71	-64.7833	17.713295	1990	cpm	soil	0.25
310887.411	1959361.71	-64.7833	17.713295	2100	cpm	soil	0.25
310887.595	1959362.44	-64.78329833	17.71330167	1960	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
310889.757	1959366.67	-64.78327833	17.71334	2050	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
310891.355	1959367.39	-64.78326333	17.71334667	1850	cpm	soil	0.25
310891.539	1959368.13	-64.78326167	17.71335333	1760	cpm	soil	0.25
310890.683	1959371.09	-64.78327	17.71338	1740	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310889.109	1959372.95	-64.783285	17.71339667	1800	cpm	soil	0.25
310886.119	1959374.63	-64.78331333	17.71341167	1910	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	2380	cpm	soil	0.25
310877.306	1959377.49	-64.78339667	17.71343667	2580	cpm	soil	0.25
310876.07	1959377.68	-64.78340833	17.71343833	2360	cpm	soil	0.25
310872.715	1959378.08	-64.78344	17.71344167	2180	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
310867.952	1959379.23	-64.783485	17.71345167	2230	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
310862.491	1959381.32	-64.78353667	17.71347	2060	cpm	soil	0.25
310860.73	1959382.07	-64.78355333	17.71347667	1900	cpm	soil	0.25
310859.671	1959382.26	-64.78356333	17.71347833	1860	cpm	soil	0.25
310857.026	1959383.03	-64.78358833	17.713485	1800	cpm	soil	0.25
310855.268	1959384.15	-64.783605	17.713495	1930	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
310852.111	1959386.76	-64.783635	17.71351833	1850	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
0*	0*	0*	0*	1880	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310853.078	1959395.61	-64.78362667	17.71359833	1640	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
310855.758	1959398.54	-64.78360167	17.713625	1630	cpm	soil	0.25
310857.01	1959400	-64.78359	17.71363833	1590	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310858.986	1959403.3	-64.78357167	17.71366833	1590	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
310860.959	1959406.23	-64.78355333	17.713695	1340	cpm	soil	0.25
310861.855	1959407.52	-64.783545	17.71370667	1370	cpm	soil	0.25
0*	0*	0*	0*	1370	cpm	soil	0.25
310863.808	1959408.42	-64.78352667	17.713715	1360	cpm	soil	0.25
310865.051	1959408.96	-64.783515	17.71372	1380	cpm	soil	0.25
310865.935	1959408.95	-64.78350667	17.71372	1420	cpm	soil	0.25
310868.771	1959409.67	-64.78348	17.71372667	1520	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310870.736	1959411.86	-64.78346167	17.71374667	1760	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310872.361	1959415.35	-64.78344667	17.71377833	1870	cpm	soil	0.25
310871.491	1959416.83	-64.783455	17.71379167	1910	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310868.676	1959418.34	-64.78348167	17.713805	1750	cpm	soil	0.25
310866.915	1959419.09	-64.78349833	17.71381167	1700	cpm	soil	0.25
310865.156	1959420.03	-64.783515	17.71382	1790	cpm	soil	0.25
310863.397	1959420.97	-64.78353167	17.71382833	1700	cpm	soil	0.25
0*	0*	0*	0*	1800	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310859.887	1959423.77	-64.783565	17.71385333	1760	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310855.669	1959426.39	-64.783605	17.71387667	1710	cpm	soil	0.25
310853.559	1959427.7	-64.783625	17.71388833	1570	cpm	soil	0.25
0*	0*	0*	0*	1560	cpm	soil	0.25
310849.346	1959430.88	-64.783665	17.71391667	1470	cpm	soil	0.25
310847.772	1959432.74	-64.78368	17.71393333	1600	cpm	soil	0.25
310846.896	1959433.49	-64.78368833	17.71394	1620	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310842.5	1959436.11	-64.78373	17.71396333	1660	cpm	soil	0.25
310840.041	1959437.79	-64.78375333	17.71397833	1750	cpm	soil	0.25
310837.583	1959439.66	-64.78377667	17.713995	1660	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310832.318	1959443.77	-64.78382667	17.71403167	1970	cpm	soil	0.25
310831.441	1959444.52	-64.783835	17.71403833	1960	cpm	soil	0.25
310828.455	1959446.57	-64.78386333	17.71405667	2070	cpm	soil	0.25
310826.346	1959447.89	-64.78388333	17.71406833	2030	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
310822.141	1959451.98	-64.78392333	17.714105	2130	cpm	soil	0.25
0*	0*	0*	0*	2180	cpm	soil	0.25
310817.755	1959455.53	-64.783965	17.71413667	2130	cpm	soil	0.25
310816.526	1959456.46	-64.78397667	17.714145	2150	cpm	soil	0.25
310813.547	1959459.26	-64.784005	17.71417	2150	cpm	soil	0.25
310811.443	1959461.12	-64.784025	17.71418667	2070	cpm	soil	0.25
310809.157	1959462.44	-64.78404667	17.71419833	2060	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
310805.605	1959460.81	-64.78408	17.71418333	1730	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310804.326	1959456.4	-64.78409167	17.71414333	1710	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310806.403	1959451.76	-64.78407167	17.71410167	1820	cpm	soil	0.25
310807.8	1959449.91	-64.78405833	17.714085	1820	cpm	soil	0.25
310809.374	1959448.05	-64.78404333	17.71406833	1750	cpm	soil	0.25
310810.59	1959445.82	-64.78403167	17.71404833	1740	cpm	soil	0.25
310811.984	1959443.59	-64.78401833	17.71402833	1700	cpm	soil	0.25
310813.557	1959441.73	-64.78400333	17.71401167	1800	cpm	soil	0.25
310814.781	1959440.25	-64.78399167	17.71399833	1860	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
310815.833	1959439.31	-64.78398167	17.71399	1710	cpm	soil	0.25
310815.833	1959439.31	-64.78398167	17.71399	1640	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
310815.833	1959439.31	-64.78398167	17.71399	1540	cpm	soil	0.25
310815.833	1959439.31	-64.78398167	17.71399	1550	cpm	soil	0.25
310816.533	1959438.57	-64.783975	17.71398333	1550	cpm	soil	0.25
310818.283	1959436.71	-64.78395833	17.71396667	1530	cpm	soil	0.25
310820.391	1959435.21	-64.78393833	17.71395333	1660	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310823.906	1959432.97	-64.783905	17.71393333	1640	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310827.065	1959430.54	-64.783875	17.71391167	1720	cpm	soil	0.25
310828.994	1959428.86	-64.78385667	17.71389667	1850	cpm	soil	0.25
310830.925	1959427.36	-64.78383833	17.71388333	1900	cpm	soil	0.25
310832.857	1959426.06	-64.78382	17.71387167	1960	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
310837.426	1959423.06	-64.78377667	17.713845	1860	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
310840.943	1959421	-64.78374333	17.71382667	1980	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25
310863.148	1959413.41	-64.78353333	17.71376	1470	cpm	soil	0.25
0*	0*	0*	0*	1440	cpm	soil	0.25
310864.766	1959416.16	-64.78351833	17.713785	1510	cpm	soil	0.25
310865.851	1959418.73	-64.78350833	17.71380833	1640	cpm	soil	0.25
310865.868	1959420.58	-64.78350833	17.713825	1640	cpm	soil	0.25
310864.645	1959422.06	-64.78352	17.71383833	1620	cpm	soil	0.25
310863.768	1959422.81	-64.78352833	17.713845	1690	cpm	soil	0.25
310860.78	1959424.68	-64.78355667	17.71386167	1750	cpm	soil	0.25
0*	0*	0*	0*	1630	cpm	soil	0.25
310857.804	1959427.85	-64.783585	17.71389	1640	cpm	soil	0.25
310857.104	1959428.59	-64.78359167	17.71389667	1660	cpm	soil	0.25
310855.527	1959430.08	-64.78360667	17.71391	1640	cpm	soil	0.25
310854.303	1959431.57	-64.78361833	17.71392333	1620	cpm	soil	0.25
0*	0*	0*	0*	1530	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
310849.925	1959436.04	-64.78366	17.71396333	1470	cpm	soil	0.25
310848.173	1959437.72	-64.78367667	17.71397833	1580	cpm	soil	0.25
310846.589	1959438.47	-64.78369167	17.713985	1620	cpm	soil	0.25
310845.541	1959439.77	-64.78370167	17.71399667	1680	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
310845.045	1959443.46	-64.78370667	17.71403	1940	cpm	soil	0.25
310878.653	1959463.62	-64.78339167	17.714215	1680	cpm	soil	0.25
310880.258	1959465.08	-64.78337667	17.71422833	1690	cpm	soil	0.25
310880.457	1959467.48	-64.783375	17.71425	1700	cpm	soil	0.25
310879.414	1959469.34	-64.783385	17.71426667	1730	cpm	soil	0.25
310878.192	1959471.01	-64.78339667	17.71428167	1680	cpm	soil	0.25
310876.615	1959472.5	-64.78341167	17.714295	1690	cpm	soil	0.25
310874.861	1959473.99	-64.78342833	17.71430833	1620	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310870.986	1959475.5	-64.783465	17.71432167	1680	cpm	soil	0.25
310869.93	1959476.07	-64.783475	17.71432667	1620	cpm	soil	0.25
310867.471	1959477.75	-64.78349833	17.71434167	1590	cpm	soil	0.25
310866.592	1959478.31	-64.78350667	17.71434667	1740	cpm	soil	0.25
310865.712	1959478.69	-64.783515	17.71435	1690	cpm	soil	0.25
310864.656	1959479.25	-64.783525	17.714355	1740	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310864.656	1959479.25	-64.783525	17.714355	1850	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
310864.656	1959479.25	-64.783525	17.714355	2000	cpm	soil	0.25
310864.656	1959479.25	-64.783525	17.714355	2050	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
310823.677	1959502.15	-64.78391333	17.71455833	1870	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310819.984	1959504.21	-64.78394833	17.71457667	1590	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
310819.658	1959507.17	-64.78395167	17.71460333	1520	cpm	soil	0.25
0*	0*	0*	0*	1540	cpm	soil	0.25
310824.082	1959507.49	-64.78391	17.71460667	1470	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310827.787	1959506.72	-64.783875	17.7146	1470	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310831.659	1959504.84	-64.78383833	17.71458333	1460	cpm	soil	0.25
310832.361	1959504.28	-64.78383167	17.71457833	1490	cpm	soil	0.25
310834.467	1959502.6	-64.78381167	17.71456333	1470	cpm	soil	0.25
310835.874	1959501.85	-64.78379833	17.71455667	1410	cpm	soil	0.25
310836.576	1959501.29	-64.78379167	17.71455167	1380	cpm	soil	0.25
310838.684	1959499.79	-64.78377167	17.71453833	1270	cpm	soil	0.25
310840.087	1959498.67	-64.78375833	17.71452833	1200	cpm	soil	0.25
0*	0*	0*	0*	1270	cpm	soil	0.25
310842.193	1959496.99	-64.78373833	17.71451333	1260	cpm	soil	0.25
310843.595	1959495.69	-64.783725	17.71450167	1220	cpm	soil	0.25
0*	0*	0*	0*	1290	cpm	soil	0.25
310847.112	1959493.62	-64.78369167	17.71448333	1310	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
310885.89	1959481.08	-64.783325	17.71437333	1760	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310889.433	1959481.78	-64.78329167	17.71438	1740	cpm	soil	0.25
310890.494	1959481.77	-64.78328167	17.71438	1730	cpm	soil	0.25
310893.681	1959482.3	-64.78325167	17.714385	1770	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
310898.285	1959482.99	-64.78320833	17.71439167	1770	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310902.361	1959484.06	-64.78317	17.71440167	1780	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
310906.441	1959485.5	-64.78313167	17.714415	1570	cpm	soil	0.25
0*	0*	0*	0*	1480	cpm	soil	0.25
0*	0*	0*	0*	1530	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
310909.667	1959490.08	-64.78310167	17.71445667	1350	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310908.444	1959491.57	-64.78311333	17.71447	1440	cpm	soil	0.25
310907.033	1959491.95	-64.78312667	17.71447333	1470	cpm	soil	0.25
310906.153	1959492.33	-64.783135	17.71447667	1570	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310857.855	1959507.91	-64.78359167	17.71461333	1490	cpm	soil	0.25
0*	0*	0*	0*	1570	cpm	soil	0.25
310853.984	1959509.79	-64.78362833	17.71463	1530	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310849.406	1959511.86	-64.78367167	17.71464833	1660	cpm	soil	0.25
310847.299	1959513.36	-64.78369167	17.71466167	1630	cpm	soil	0.25
310846.602	1959514.47	-64.78369833	17.71467167	1630	cpm	soil	0.25
310846.635	1959517.98	-64.78369833	17.71470333	1650	cpm	soil	0.25
310847.36	1959519.82	-64.78369167	17.71472	1780	cpm	soil	0.25
310848.958	1959520.54	-64.78367667	17.71472667	1640	cpm	soil	0.25
310851.081	1959520.7	-64.78365667	17.71472833	1530	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310856.203	1959520.1	-64.78360833	17.71472333	1650	cpm	soil	0.25
310857.439	1959519.91	-64.78359667	17.71472167	1600	cpm	soil	0.25
310861.493	1959518.58	-64.78355833	17.71471	1550	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
310866.959	1959517.05	-64.78350667	17.71469667	1580	cpm	soil	0.25
310869.784	1959516.65	-64.78348	17.71469333	1690	cpm	soil	0.25
310872.256	1959516.26	-64.78345667	17.71469	1640	cpm	soil	0.25
310874.727	1959515.87	-64.78343333	17.71468667	1630	cpm	soil	0.25
0*	0*	0*	0*	1540	cpm	soil	0.25
310880.022	1959514.9	-64.78338333	17.71467833	1550	cpm	soil	0.25
0*	0*	0*	0*	1660	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1630	cpm	soil	0.25
310889.55	1959512.78	-64.78329333	17.71466	1630	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310893.604	1959511.45	-64.783255	17.71464833	1620	cpm	soil	0.25
0*	0*	0*	0*	1540	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310900.133	1959510.09	-64.78319333	17.71463667	1570	cpm	soil	0.25
310902.781	1959509.7	-64.78316833	17.71463333	1590	cpm	soil	0.25
0*	0*	0*	0*	1560	cpm	soil	0.25
310906.662	1959508.74	-64.78313167	17.714625	1560	cpm	soil	0.25
310907.367	1959508.55	-64.783125	17.71462333	1610	cpm	soil	0.25
310909.481	1959507.79	-64.783105	17.71461667	1600	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
310911.423	1959507.4	-64.78308667	17.71461333	1600	cpm	soil	0.25
310912.835	1959507.21	-64.78307333	17.71461167	1560	cpm	soil	0.25
310916.898	1959506.8	-64.783035	17.71460833	1550	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
310922.553	1959506.56	-64.78298167	17.71460667	1650	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
310925.566	1959507.27	-64.78295333	17.71461333	1550	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310928.414	1959509.27	-64.78292667	17.71463167	1710	cpm	soil	0.25
310956.364	1959529.48	-64.782665	17.71481667	2200	cpm	soil	0.25
310959.201	1959530.38	-64.78263833	17.714825	2250	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
310963.817	1959532.37	-64.782595	17.71484333	2380	cpm	soil	0.25
0*	0*	0*	0*	2500	cpm	soil	0.25
310967.906	1959534.72	-64.78255667	17.714865	2260	cpm	soil	0.25
310969.509	1959536	-64.78254167	17.71487667	2120	cpm	soil	0.25
310970.409	1959537.65	-64.78253333	17.71489167	2010	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
310971.142	1959540.41	-64.78252667	17.71491667	1990	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310971.17	1959543.36	-64.78252667	17.71494333	1780	cpm	soil	0.25
310971.354	1959544.1	-64.782525	17.71495	1710	cpm	soil	0.25
310971.564	1959547.6	-64.78252333	17.71498167	1700	cpm	soil	0.25
310971.397	1959548.71	-64.782525	17.71499167	1730	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310972.328	1959553.68	-64.78251667	17.71503667	1880	cpm	soil	0.25
310974.459	1959554.59	-64.78249667	17.715045	1830	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
310979.939	1959554.53	-64.782445	17.715045	1630	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
310985.061	1959553.93	-64.78239667	17.71504	1680	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
310845.32	1959416.53	-64.78370167	17.71378667	1800	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
310847.948	1959413.92	-64.78367667	17.71376333	1770	cpm	soil	0.25
310848.826	1959413.36	-64.78366833	17.71375833	1750	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310853.383	1959409.07	-64.783625	17.71372	1580	cpm	soil	0.25
310854.792	1959408.51	-64.78361167	17.713715	1610	cpm	soil	0.25
310855.842	1959407.39	-64.78360167	17.713705	1570	cpm	soil	0.25
310857.066	1959405.9	-64.78359	17.71369167	1520	cpm	soil	0.25
0*	0*	0*	0*	1420	cpm	soil	0.25
310859.354	1959404.77	-64.78356833	17.71368167	1350	cpm	soil	0.25
310859.884	1959404.77	-64.78356333	17.71368167	1340	cpm	soil	0.25
310860.062	1959404.95	-64.78356167	17.71368333	1400	cpm	soil	0.25
310859.536	1959405.33	-64.78356667	17.71368667	1440	cpm	soil	0.25
310859.536	1959405.33	-64.78356667	17.71368667	1340	cpm	soil	0.25
310859.536	1959405.33	-64.78356667	17.71368667	1360	cpm	soil	0.25
310859.898	1959406.24	-64.78356333	17.713695	1320	cpm	soil	0.25
310860.44	1959407.53	-64.78355833	17.71370667	1400	cpm	soil	0.25
310861.165	1959409.37	-64.78355167	17.71372333	1390	cpm	soil	0.25
310845.408	1959444.38	-64.78370333	17.71403833	2000	cpm	soil	0.25
310846.307	1959446.04	-64.783695	17.71405333	1970	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310846.668	1959446.77	-64.78369167	17.71406	1940	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310850.251	1959451.72	-64.78365833	17.714105	1950	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
310851.182	1959456.69	-64.78365	17.71415	2170	cpm	soil	0.25
310851.014	1959457.61	-64.78365167	17.71415833	2260	cpm	soil	0.25
310850.686	1959460.38	-64.783655	17.71418333	2130	cpm	soil	0.25
310851.945	1959462.59	-64.78364333	17.71420333	2270	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
310854.814	1959466.8	-64.78361667	17.71424167	2390	cpm	soil	0.25
310856.249	1959469	-64.78360333	17.71426167	2220	cpm	soil	0.25
310857.681	1959470.83	-64.78359	17.71427833	2220	cpm	soil	0.25
310860.156	1959470.81	-64.78356667	17.71427833	2050	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
310867.562	1959468.71	-64.78349667	17.71426	1830	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
310874.066	1959464.77	-64.783435	17.714225	1800	cpm	soil	0.25
310876.531	1959463.64	-64.78341167	17.714215	1730	cpm	soil	0.25
310861.488	1959480.76	-64.783555	17.71436833	2200	cpm	soil	0.25
310859.906	1959481.7	-64.78357	17.71437667	2030	cpm	soil	0.25
310858.146	1959482.63	-64.78358667	17.714385	1950	cpm	soil	0.25
310856.384	1959483.2	-64.78360333	17.71439	2030	cpm	soil	0.25
310853.741	1959484.15	-64.78362833	17.71439833	1950	cpm	soil	0.25
310851.98	1959484.91	-64.783645	17.714405	1980	cpm	soil	0.25
310850.221	1959485.85	-64.78366167	17.71441333	2050	cpm	soil	0.25
310848.283	1959486.6	-64.78368	17.71442	2010	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
310844.945	1959488.85	-64.78371167	17.71444	2000	cpm	soil	0.25
310844.245	1959489.59	-64.78371833	17.71444667	1860	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
310840.56	1959492.58	-64.78375333	17.71447333	1760	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
310837.397	1959494.64	-64.78378333	17.71449167	1760	cpm	soil	0.25
310836.518	1959495.2	-64.78379167	17.71449667	1620	cpm	soil	0.25
310834.059	1959496.88	-64.783815	17.71451167	1630	cpm	soil	0.25
310832.478	1959498.01	-64.78383	17.71452167	1730	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
310829.317	1959500.25	-64.78386	17.71454167	1780	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310825.438	1959501.39	-64.78389667	17.71455167	1800	cpm	soil	0.25
310849.048	1959492.68	-64.78367333	17.714475	1280	cpm	soil	0.25
310850.987	1959492.11	-64.783655	17.71447	1320	cpm	soil	0.25
0*	0*	0*	0*	1380	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25
310856.093	1959489.85	-64.78360667	17.71445	1450	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310858.561	1959489.09	-64.78358333	17.71444333	1490	cpm	soil	0.25
310860.147	1959488.52	-64.78356833	17.71443833	1680	cpm	soil	0.25
310860.851	1959488.14	-64.78356167	17.714435	1800	cpm	soil	0.25
310863.138	1959487.01	-64.78354	17.714425	1960	cpm	soil	0.25
310864.901	1959486.44	-64.78352333	17.71442	1880	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310868.426	1959485.3	-64.78349	17.71441	1690	cpm	soil	0.25
310870.191	1959484.92	-64.78347333	17.71440667	1720	cpm	soil	0.25
310871.602	1959484.54	-64.78346	17.71440333	1750	cpm	soil	0.25
310873.186	1959483.78	-64.783445	17.71439667	1760	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
310876.182	1959482.83	-64.78341667	17.71438833	1560	cpm	soil	0.25
310877.593	1959482.45	-64.78340333	17.714385	1550	cpm	soil	0.25
310878.297	1959482.07	-64.78339667	17.71438167	1580	cpm	soil	0.25
310880.767	1959481.5	-64.78337333	17.71437667	1680	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
310882.529	1959480.93	-64.78335667	17.71437167	1720	cpm	soil	0.25
310903.681	1959492.72	-64.78315833	17.71448	1610	cpm	soil	0.25
310901.034	1959493.3	-64.78318333	17.714485	1630	cpm	soil	0.25
310898.915	1959493.5	-64.78320333	17.71448667	1570	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
310894.852	1959493.91	-64.78324167	17.71449	1630	cpm	soil	0.25
310892.909	1959494.11	-64.78326	17.71449167	1680	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
310889.203	1959494.88	-64.783295	17.71449833	1650	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310885.323	1959495.84	-64.78333167	17.71450667	1680	cpm	soil	0.25
310883.385	1959496.6	-64.78335	17.71451333	1600	cpm	soil	0.25
310881.449	1959497.54	-64.78336833	17.71452167	1620	cpm	soil	0.25
310878.276	1959498.49	-64.78339833	17.71453	1600	cpm	soil	0.25
310877.217	1959498.69	-64.78340833	17.71453167	1550	cpm	soil	0.25
310873.866	1959499.64	-64.78344	17.71454	1550	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
310869.282	1959500.98	-64.78348333	17.71455167	1400	cpm	soil	0.25
310866.993	1959501.92	-64.783505	17.71456	1440	cpm	soil	0.25
310865.939	1959502.67	-64.783515	17.71456667	1430	cpm	soil	0.25
310863.303	1959504.35	-64.78354	17.71458167	1490	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25
310859.613	1959506.79	-64.783575	17.71460333	1520	cpm	soil	0.25
310882.317	1959514.5	-64.78336167	17.714675	1530	cpm	soil	0.25
310882.847	1959514.5	-64.78335667	17.714675	1510	cpm	soil	0.25
0*	0*	0*	0*	1570	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310883.905	1959514.12	-64.78334667	17.71467167	1570	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
310885.844	1959513.55	-64.78332833	17.71466667	1540	cpm	soil	0.25
310886.198	1959513.55	-64.783325	17.71466667	1510	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310886.198	1959513.55	-64.783325	17.71466667	1560	cpm	soil	0.25
310886.198	1959513.55	-64.783325	17.71466667	1570	cpm	soil	0.25
310886.198	1959513.55	-64.783325	17.71466667	1560	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1580	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1590	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1550	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1610	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1600	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1660	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1690	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1740	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1740	cpm	soil	0.25
310929.313	1959510.92	-64.78291833	17.71464667	1630	cpm	soil	0.25
310929.674	1959511.66	-64.782915	17.71465333	1700	cpm	soil	0.25
310929.859	1959512.58	-64.78291333	17.71466167	1650	cpm	soil	0.25
310930.241	1959515.53	-64.78291	17.71468833	1790	cpm	soil	0.25
310931.141	1959517.18	-64.78290167	17.71470333	1950	cpm	soil	0.25
310932.394	1959518.83	-64.78289	17.71471833	1870	cpm	soil	0.25
310933.47	1959520.48	-64.78288	17.71473333	2020	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
310936.507	1959523.77	-64.78285167	17.71476333	1870	cpm	soil	0.25
310938.291	1959525.41	-64.782835	17.71477833	1750	cpm	soil	0.25
310941.133	1959526.86	-64.78280833	17.71479167	1700	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310946.794	1959527.18	-64.782755	17.714795	1860	cpm	soil	0.25
310949.264	1959526.6	-64.78273167	17.71479	1860	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
310949.983	1959527.88	-64.782725	17.71480167	2010	cpm	soil	0.25
310949.814	1959528.62	-64.78272667	17.71480833	2010	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310951.951	1959530.26	-64.78270667	17.71482333	2030	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
310955.478	1959529.31	-64.78267333	17.714815	2040	cpm	soil	0.25
310987.714	1959554.09	-64.78237167	17.71504167	1780	cpm	soil	0.25
310990.37	1959554.44	-64.78234667	17.715045	1810	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
310993.909	1959554.77	-64.78231333	17.71504833	1960	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
311001.871	1959555.43	-64.78223833	17.715055	1920	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311006.818	1959555.02	-64.78219167	17.71505167	1930	cpm	soil	0.25
311009.116	1959555	-64.78217	17.71505167	2020	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311013.893	1959555.32	-64.782125	17.715055	1920	cpm	soil	0.25
311016.193	1959555.48	-64.78210333	17.71505667	1940	cpm	soil	0.25
0*	0*	0*	0*	1880	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311014.824	1959560.29	-64.78211667	17.7151	1930	cpm	soil	0.25
311011.299	1959561.43	-64.78215	17.71511	1820	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311005.652	1959562.59	-64.78220333	17.71512	1650	cpm	soil	0.25
311002.825	1959562.8	-64.78223	17.71512167	1540	cpm	soil	0.25
0*	0*	0*	0*	1570	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
310978.163	1959591.08	-64.782465	17.715375	2280	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
310978.902	1959594.39	-64.78245833	17.715405	2160	cpm	soil	0.25
310979.089	1959595.5	-64.78245667	17.715415	2100	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2040	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2100	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2270	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2200	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2220	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
310980.694	1959596.96	-64.78244167	17.71542833	2410	cpm	soil	0.25
0*	0*	0*	0*	2560	cpm	soil	0.25
310982.291	1959597.5	-64.78242667	17.71543333	2460	cpm	soil	0.25
310982.473	1959598.05	-64.782425	17.71543833	2400	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
310980.904	1959600.46	-64.78244	17.71546	2070	cpm	soil	0.25
310980.206	1959601.39	-64.78244667	17.71546833	2120	cpm	soil	0.25
310980.031	1959601.58	-64.78244833	17.71547	2150	cpm	soil	0.25
0*	0*	0*	0*	2180	cpm	soil	0.25
310995.225	1959563.06	-64.78230167	17.71512333	1710	cpm	soil	0.25
310990.089	1959562.19	-64.78235	17.715115	1630	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
310984.95	1959560.94	-64.78239833	17.71510333	1660	cpm	soil	0.25
310982.649	1959560.6	-64.78242	17.7151	1690	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
310975.761	1959561.4	-64.782485	17.71510667	1770	cpm	soil	0.25
310974.88	1959561.78	-64.78249333	17.71511	1950	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
310972.789	1959564.93	-64.78251333	17.71513833	1930	cpm	soil	0.25
310972.452	1959566.78	-64.78251667	17.715155	1980	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
310971.605	1959570.66	-64.782525	17.71519	2110	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310971.796	1959572.14	-64.78252333	17.71520333	2090	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
310971.67	1959577.49	-64.782525	17.71525167	2060	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
310973.131	1959582.45	-64.78251167	17.71529667	2080	cpm	soil	0.25
310974.918	1959584.47	-64.782495	17.715315	2150	cpm	soil	0.25
310976.177	1959586.67	-64.78248333	17.715335	2390	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	2120	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	1950	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	1900	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	2090	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	2170	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	2160	cpm	soil	0.25
310978.268	1959602.15	-64.782465	17.715475	2100	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
310967.862	1959604.83	-64.78256333	17.71549833	2200	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
310961.86	1959605.81	-64.78262	17.71550667	2260	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
310950.038	1959608.32	-64.78273167	17.71552833	2100	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310944.216	1959609.66	-64.78278667	17.71554	2130	cpm	soil	0.25
310942.805	1959610.04	-64.7828	17.71554333	2190	cpm	soil	0.25
310877.588	1959631.14	-64.78341667	17.71572833	2210	cpm	soil	0.25
310873.717	1959633.21	-64.78345333	17.71574667	2150	cpm	soil	0.25
310871.255	1959634.52	-64.78347667	17.71575833	2200	cpm	soil	0.25
310868.79	1959635.65	-64.7835	17.71576833	2230	cpm	soil	0.25
310866.502	1959636.78	-64.78352167	17.71577833	2150	cpm	soil	0.25
310862.629	1959638.48	-64.78355833	17.71579333	2190	cpm	soil	0.25
310860.168	1959639.98	-64.78358167	17.71580667	2090	cpm	soil	0.25
310858.599	1959642.39	-64.78359667	17.71582833	2220	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310857.764	1959647.56	-64.783605	17.715875	1960	cpm	soil	0.25
310855.657	1959649.06	-64.783625	17.71588833	1820	cpm	soil	0.25
310852.832	1959649.45	-64.78365167	17.71589167	1940	cpm	soil	0.25
310849.655	1959650.04	-64.78368167	17.71589667	1870	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310843.299	1959651.02	-64.78374167	17.715905	1670	cpm	soil	0.25
310840.658	1959652.15	-64.78376667	17.715915	1490	cpm	soil	0.25
0*	0*	0*	0*	1370	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310840.519	1959656.21	-64.78376833	17.71595167	1400	cpm	soil	0.25
0*	0*	0*	0*	1360	cpm	soil	0.25
0*	0*	0*	0*	1270	cpm	soil	0.25
310849	1959655.58	-64.78368833	17.71594667	1230	cpm	soil	0.25
310851.641	1959654.45	-64.78366333	17.71593667	1340	cpm	soil	0.25
310849.994	1959667.19	-64.78368	17.71605167	1230	cpm	soil	0.25
0*	0*	0*	0*	1330	cpm	soil	0.25
310856.526	1959666.21	-64.78361833	17.71604333	1390	cpm	soil	0.25
310859.71	1959666.36	-64.78358833	17.716045	1420	cpm	soil	0.25
0*	0*	0*	0*	1390	cpm	soil	0.25
310865.539	1959665.75	-64.78353333	17.71604	1400	cpm	soil	0.25
310868.363	1959665.17	-64.78350667	17.716035	1400	cpm	soil	0.25
310870.645	1959663.49	-64.783485	17.71602	1420	cpm	soil	0.25
310870.972	1959660.72	-64.78348167	17.715995	1360	cpm	soil	0.25
0*	0*	0*	0*	1340	cpm	soil	0.25
310870.39	1959655.19	-64.78348667	17.715945	1300	cpm	soil	0.25
0*	0*	0*	0*	1280	cpm	soil	0.25
310868.398	1959650.23	-64.783505	17.7159	1350	cpm	soil	0.25
310866.257	1959648.22	-64.783525	17.71588167	1270	cpm	soil	0.25
0*	0*	0*	0*	1310	cpm	soil	0.25
310860.927	1959645.5	-64.783575	17.71585667	1320	cpm	soil	0.25
310859.506	1959644.78	-64.78358833	17.71585	1390	cpm	soil	0.25
310855.776	1959642.97	-64.78362333	17.71583333	1690	cpm	soil	0.25
310852.774	1959643.37	-64.78365167	17.71583667	1960	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
310848.011	1959644.52	-64.78369667	17.71584667	2070	cpm	soil	0.25
310845.016	1959645.65	-64.783725	17.71585667	1930	cpm	soil	0.25
310797.453	1959645.37	-64.78417333	17.71585	1500	cpm	soil	0.25
310795.146	1959644.47	-64.784195	17.71584167	1500	cpm	soil	0.25
310793.193	1959643.56	-64.78421333	17.71583333	1370	cpm	soil	0.25
0*	0*	0*	0*	1330	cpm	soil	0.25
310789.643	1959642.12	-64.78424667	17.71582	1320	cpm	soil	0.25
310785.388	1959640.87	-64.78428667	17.71580833	1370	cpm	soil	0.25
310783.97	1959640.51	-64.7843	17.715805	1300	cpm	soil	0.25
310780.952	1959639.25	-64.78432833	17.71579333	1270	cpm	soil	0.25
0*	0*	0*	0*	1270	cpm	soil	0.25
0*	0*	0*	0*	1240	cpm	soil	0.25
310779.71	1959638.71	-64.78434	17.71578833	1320	cpm	soil	0.25
310775.453	1959637.27	-64.78438	17.715775	1420	cpm	soil	0.25
0*	0*	0*	0*	1360	cpm	soil	0.25
310769.953	1959635.3	-64.78443167	17.71575667	1380	cpm	soil	0.25
310768.535	1959634.94	-64.784445	17.71575333	1490	cpm	soil	0.25
310764.28	1959633.69	-64.784485	17.71574167	1570	cpm	soil	0.25
310760.196	1959631.88	-64.78452333	17.715725	1570	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310756.489	1959632.47	-64.78455833	17.71573	1670	cpm	soil	0.25
310756.158	1959634.87	-64.78456167	17.71575167	1770	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310759.887	1959636.5	-64.78452667	17.71576667	1780	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310823.35	1959654.16	-64.78393	17.71593167	1880	cpm	soil	0.25
310828.123	1959654.11	-64.783885	17.71593167	1900	cpm	soil	0.25
310830.782	1959654.83	-64.78386	17.71593833	1810	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
310832.053	1959658.32	-64.78384833	17.71597	1660	cpm	soil	0.25
310829.942	1959659.45	-64.78386833	17.71598	1640	cpm	soil	0.25
310825.879	1959659.85	-64.78390667	17.71598333	1550	cpm	soil	0.25
310823.051	1959659.88	-64.78393333	17.71598333	1660	cpm	soil	0.25
310820.397	1959659.72	-64.78395833	17.71598167	1630	cpm	soil	0.25
310817.92	1959659.56	-64.78398167	17.71598	1650	cpm	soil	0.25
310815.438	1959658.85	-64.784005	17.71597333	1730	cpm	soil	0.25
310812.781	1959658.32	-64.78403	17.71596833	1760	cpm	soil	0.25
310810.301	1959657.79	-64.78405333	17.71596333	1760	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
310804.98	1959655.99	-64.78410333	17.71594667	1680	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
310800.189	1959654.2	-64.78414833	17.71593	1680	cpm	soil	0.25
310797.88	1959653.11	-64.78417	17.71592	1940	cpm	soil	0.25
310795.571	1959652.03	-64.78419167	17.71591	1910	cpm	soil	0.25
310792.734	1959651.13	-64.78421833	17.71590167	1870	cpm	soil	0.25
310791.491	1959650.59	-64.78423	17.71589667	1730	cpm	soil	0.25
310787.409	1959648.97	-64.78426833	17.71588167	1700	cpm	soil	0.25
310761.965	1959613.23	-64.784505	17.71555667	2490	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
310762.287	1959609.91	-64.78450167	17.71552667	2370	cpm	soil	0.25
310762.791	1959607.14	-64.78449667	17.71550167	2380	cpm	soil	0.25
310763.479	1959605.1	-64.78449	17.71548333	2380	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310767.72	1959604.88	-64.78445	17.71548167	2180	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
310770.184	1959603.75	-64.78442667	17.71547167	1990	cpm	soil	0.25
310770.359	1959603.56	-64.784425	17.71547	1940	cpm	soil	0.25
310770.878	1959602.27	-64.78442	17.71545833	1980	cpm	soil	0.25
310770.878	1959602.27	-64.78442	17.71545833	1920	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
310773.129	1959597.26	-64.78439833	17.71541333	1930	cpm	soil	0.25
310773.643	1959595.6	-64.78439333	17.71539833	2140	cpm	soil	0.25
310774.841	1959591.34	-64.78438167	17.71536	2140	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
310778.35	1959588.54	-64.78434833	17.715335	1900	cpm	soil	0.25
310780.823	1959588.34	-64.784325	17.71533333	1870	cpm	soil	0.25
310783.122	1959588.31	-64.78430333	17.71533333	1870	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2230	cpm	soil	0.25
310839.223	1959594.05	-64.783775	17.71539	2200	cpm	soil	0.25
310836.039	1959593.9	-64.783805	17.71538833	1980	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
310829.673	1959593.78	-64.783865	17.71538667	2030	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	1880	cpm	soil	0.25
310825.831	1959598.79	-64.78390167	17.71543167	1730	cpm	soil	0.25
310825.871	1959603.04	-64.78390167	17.71547	1610	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310823.807	1959609.14	-64.78392167	17.715525	1610	cpm	soil	0.25
310822.395	1959609.34	-64.783935	17.71552667	1640	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
0*	0*	0*	0*	1630	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310810.667	1959603.18	-64.784045	17.71547	1670	cpm	soil	0.25
310810.3	1959601.71	-64.78404833	17.71545667	1650	cpm	soil	0.25
310811.499	1959597.64	-64.78403667	17.71542	1730	cpm	soil	0.25
310812.019	1959596.53	-64.78403167	17.71541	1620	cpm	soil	0.25
0*	0*	0*	0*	1680	cpm	soil	0.25
310811.074	1959590.08	-64.78404	17.71535167	1700	cpm	soil	0.25
310938.576	1959611.56	-64.78284	17.71555667	2150	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310932.76	1959613.46	-64.782895	17.71557333	2010	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
310924.302	1959616.49	-64.782975	17.7156	2120	cpm	soil	0.25
310922.711	1959616.51	-64.78299	17.7156	2230	cpm	soil	0.25
310918.125	1959617.66	-64.78303333	17.71561	2250	cpm	soil	0.25
310915.307	1959618.79	-64.78306	17.71562	2230	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
310909.679	1959621.98	-64.78311333	17.71564833	2360	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
310903.511	1959624.07	-64.78317167	17.71566667	2280	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
310897.868	1959625.6	-64.783225	17.71568	2240	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
310891.694	1959627.13	-64.78328333	17.71569333	2250	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
310885.872	1959628.48	-64.78333833	17.715705	2220	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
310878.997	1959630.57	-64.78340333	17.71572333	2120	cpm	soil	0.25
310854.459	1959653.31	-64.78363667	17.71592667	1410	cpm	soil	0.25
310857.279	1959652.36	-64.78361	17.71591833	1530	cpm	soil	0.25
310860.103	1959651.78	-64.78358333	17.71591333	1530	cpm	soil	0.25
0*	0*	0*	0*	1400	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310866.1	1959650.25	-64.78352667	17.7159	1480	cpm	soil	0.25
310867.88	1959651.52	-64.78351	17.71591167	1450	cpm	soil	0.25
310868.081	1959654.11	-64.78350833	17.715935	1490	cpm	soil	0.25
310866.154	1959655.97	-64.78352667	17.71595167	1460	cpm	soil	0.25
0*	0*	0*	0*	1390	cpm	soil	0.25
310860.341	1959658.24	-64.78358167	17.71597167	1430	cpm	soil	0.25
310857.164	1959658.82	-64.78361167	17.71597667	1430	cpm	soil	0.25
310854.34	1959659.4	-64.78363833	17.71598167	1510	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310851.337	1959659.61	-64.78366667	17.71598333	1690	cpm	soil	0.25
310846.57	1959660.4	-64.78371167	17.71599	1620	cpm	soil	0.25
310843.563	1959660.24	-64.78374	17.71598833	1510	cpm	soil	0.25
310840.561	1959660.64	-64.78376833	17.71599167	1330	cpm	soil	0.25
310838.989	1959662.68	-64.78378333	17.71601	1300	cpm	soil	0.25
310839.721	1959665.26	-64.78377667	17.71603333	1320	cpm	soil	0.25
310841.682	1959666.9	-64.78375833	17.71604833	1170	cpm	soil	0.25
310845.928	1959667.23	-64.78371833	17.71605167	1160	cpm	soil	0.25
0*	0*	0*	0*	1210	cpm	soil	0.25
310841.841	1959646.42	-64.783755	17.71586333	1950	cpm	soil	0.25
310838.664	1959647	-64.783785	17.71586833	1900	cpm	soil	0.25
310835.487	1959647.59	-64.783815	17.71587333	1940	cpm	soil	0.25
310833.014	1959647.8	-64.78383833	17.715875	2020	cpm	soil	0.25
310832.139	1959648.73	-64.78384667	17.71588333	2030	cpm	soil	0.25
310831.622	1959650.21	-64.78385167	17.71589667	1850	cpm	soil	0.25
310829.51	1959651.15	-64.78387167	17.715905	1780	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
310826.504	1959651.18	-64.7839	17.715905	1660	cpm	soil	0.25
310823.32	1959651.02	-64.78393	17.71590333	1660	cpm	soil	0.25
310821.374	1959650.86	-64.78394833	17.71590167	1560	cpm	soil	0.25
310819.427	1959650.69	-64.78396667	17.7159	1670	cpm	soil	0.25
310817.477	1959650.16	-64.783985	17.715895	1690	cpm	soil	0.25
310816.413	1959649.8	-64.783995	17.71589167	1680	cpm	soil	0.25
310813.404	1959649.46	-64.78402333	17.71588833	1720	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310810.394	1959648.93	-64.78405167	17.71588333	1540	cpm	soil	0.25
310807.731	1959647.85	-64.78407667	17.71587333	1470	cpm	soil	0.25
310805.605	1959647.32	-64.78409667	17.71586833	1600	cpm	soil	0.25
310803.303	1959646.97	-64.78411833	17.715865	1570	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
310800.467	1959646.26	-64.784145	17.71585833	1510	cpm	soil	0.25
310765.208	1959638.29	-64.78447667	17.71578333	1760	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
310773.541	1959640.8	-64.78439833	17.71580667	1770	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310779.044	1959643.14	-64.78434667	17.71582833	1500	cpm	soil	0.25
310782.06	1959644.22	-64.78431833	17.71583833	1420	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	1360	cpm	soil	0.25
310787.558	1959646.01	-64.78426667	17.715855	1280	cpm	soil	0.25
0*	0*	0*	0*	1290	cpm	soil	0.25
310793.228	1959647.25	-64.78421333	17.71586667	1270	cpm	soil	0.25
0*	0*	0*	0*	1430	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310801.209	1959649.94	-64.78413833	17.71589167	1860	cpm	soil	0.25
310803.868	1959650.66	-64.78411333	17.71589833	1930	cpm	soil	0.25
310806.704	1959651.37	-64.78408667	17.715905	1950	cpm	soil	0.25
310809.364	1959652.26	-64.78406167	17.71591333	1910	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
310814.855	1959653.32	-64.78401	17.71592333	1810	cpm	soil	0.25
310816.096	1959653.68	-64.78399833	17.71592667	1830	cpm	soil	0.25
310820.346	1959654.37	-64.78395833	17.71593333	1910	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310784.395	1959648.07	-64.78429667	17.71587333	1760	cpm	soil	0.25
310781.383	1959647.36	-64.784325	17.71586667	1780	cpm	soil	0.25
310778.544	1959646.28	-64.78435167	17.71585667	1650	cpm	soil	0.25
310775.528	1959645.2	-64.78438	17.71584667	1560	cpm	soil	0.25
310773.933	1959644.85	-64.784395	17.71584333	1450	cpm	soil	0.25
310771.453	1959644.32	-64.78441833	17.71583833	1480	cpm	soil	0.25
310768.623	1959644.16	-64.784445	17.71583667	1560	cpm	soil	0.25
310765.433	1959643.46	-64.784475	17.71583	1540	cpm	soil	0.25
310762.241	1959642.38	-64.784505	17.71582	1730	cpm	soil	0.25
310757.818	1959642.05	-64.78454667	17.71581667	1750	cpm	soil	0.25
310755.686	1959640.97	-64.78456667	17.71580667	1720	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
310755.49	1959638.94	-64.78456833	17.71578833	1680	cpm	soil	0.25
310755.665	1959638.75	-64.78456667	17.71578667	1650	cpm	soil	0.25
310755.665	1959638.75	-64.78456667	17.71578667	1630	cpm	soil	0.25
0*	0*	0*	0*	1680	cpm	soil	0.25
0*	0*	0*	0*	1660	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310755.129	1959638.2	-64.78457167	17.71578167	1670	cpm	soil	0.25
310754.417	1959637.66	-64.78457833	17.71577667	1740	cpm	soil	0.25
310754.056	1959636.92	-64.78458167	17.71577	1800	cpm	soil	0.25
310754.056	1959636.92	-64.78458167	17.71577	1880	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
310788.779	1959588.26	-64.78425	17.71533333	1880	cpm	soil	0.25
310793.372	1959587.85	-64.78420667	17.71533	1820	cpm	soil	0.25
310796.558	1959588.19	-64.78417667	17.71533333	1630	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
310802.756	1959589.23	-64.78411833	17.71534333	1470	cpm	soil	0.25
310805.759	1959589.02	-64.78409	17.71534167	1410	cpm	soil	0.25
310807.347	1959588.64	-64.784075	17.71533833	1400	cpm	soil	0.25
0*	0*	0*	0*	1350	cpm	soil	0.25
310815.295	1959587.82	-64.784	17.71533167	1390	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310818.828	1959587.42	-64.78396667	17.71532833	1550	cpm	soil	0.25
310822.19	1959587.76	-64.783935	17.71533167	1660	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
310828.745	1959589.17	-64.78387333	17.715345	1790	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310833.351	1959590.05	-64.78383	17.71535333	2000	cpm	soil	0.25
310834.413	1959590.23	-64.78382	17.715355	2220	cpm	soil	0.25
310835.652	1959590.4	-64.78380833	17.71535667	2100	cpm	soil	0.25
310838.838	1959590.74	-64.78377833	17.71536	2080	cpm	soil	0.25
310840.431	1959590.91	-64.78376333	17.71536167	2180	cpm	soil	0.25
310843.613	1959590.88	-64.78373333	17.71536167	2270	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
310810.183	1959589.35	-64.78404833	17.715345	1620	cpm	soil	0.25
310807.179	1959589.56	-64.78407667	17.71534667	1510	cpm	soil	0.25
310805.957	1959591.23	-64.78408833	17.71536167	1500	cpm	soil	0.25
310802.092	1959593.85	-64.784125	17.715385	1530	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
310797.849	1959593.89	-64.784165	17.715385	1550	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
310789.708	1959593.05	-64.78424167	17.71537667	1700	cpm	soil	0.25
310786.699	1959592.71	-64.78427	17.71537333	1810	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
310780.507	1959592.21	-64.78432833	17.71536833	1870	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
310776.085	1959592.07	-64.78437	17.71536667	1870	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
310774.347	1959595.22	-64.78438667	17.715395	2070	cpm	soil	0.25
310775.765	1959595.58	-64.78437333	17.71539833	2120	cpm	soil	0.25
310778.957	1959596.65	-64.78434333	17.71540833	2040	cpm	soil	0.25
310780.554	1959597.19	-64.78432833	17.71541333	1870	cpm	soil	0.25
310785.166	1959598.81	-64.784285	17.71542833	1800	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310794.9	1959599.82	-64.78419333	17.71543833	1920	cpm	soil	0.25
310772.047	1959613.69	-64.78441	17.71556167	1950	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
310769.631	1959619.99	-64.78443333	17.71561833	2200	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
310767.539	1959623.14	-64.78445333	17.71564667	1860	cpm	soil	0.25
310765.602	1959623.9	-64.78447167	17.71565333	1860	cpm	soil	0.25
310764.9	1959624.46	-64.78447833	17.71565833	1940	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310757.501	1959627.3	-64.78454833	17.71568333	1920	cpm	soil	0.25
310755.39	1959628.42	-64.78456833	17.71569333	1960	cpm	soil	0.25
310754.34	1959629.54	-64.78457833	17.71570333	1900	cpm	soil	0.25

Table 32: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310753.647	1959631.02	-64.784585	17.71571667	1760	cpm	soil	0.25
310752.785	1959633.43	-64.78459333	17.71573833	1680	cpm	soil	0.25
310751.746	1959635.65	-64.78460333	17.71575833	1720	cpm	soil	0.25
310751.576	1959636.39	-64.784605	17.715765	1670	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310800.219	1959601.43	-64.78414333	17.71545333	1820	cpm	soil	0.25
310800.947	1959603.64	-64.78413667	17.71547333	1690	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
310795.309	1959605.72	-64.78419	17.71549167	1620	cpm	soil	0.25
310793.713	1959605.19	-64.784205	17.71548667	1630	cpm	soil	0.25
310789.276	1959603.38	-64.78424667	17.71547	1650	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310783.601	1959601.59	-64.7843	17.71545333	1530	cpm	soil	0.25
0*	0*	0*	0*	1440	cpm	soil	0.25
310777.919	1959599.06	-64.78435333	17.71543	1480	cpm	soil	0.25
0*	0*	0*	0*	1480	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
310773.517	1959600.95	-64.784395	17.71544667	1500	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310772.644	1959602.06	-64.78440333	17.71545667	1660	cpm	soil	0.25
310772.651	1959602.8	-64.78440333	17.71546333	1580	cpm	soil	0.25
0*	0*	0*	0*	1560	cpm	soil	0.25
310772.85	1959605.2	-64.78440167	17.715485	1630	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
310772.707	1959608.7	-64.78440333	17.71551667	1860	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
			Minimum =	**1160**			
			Maximum =	**3440**			
			Median =	**1980**			
			Arithmetic mean =	**2045**			
			One Sigma =	**430**			
			Two Sigma =	**859**			

Average Background =	**5193.75**	**cpm**		
Background +/- One	**4597**	**to**	**5790**	**cpm**
Background +/- Two Sigma =	**4000**	**to**	**6387**	**cpm**

0* - GPS data not available

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311354.8765	1959884.338	-64.77894	17.71805667	1950	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1960	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1990	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1970	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1970	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1980	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1980	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1980	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2020	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2010	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1980	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2030	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2070	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2100	cpm	soil	0.25
311355.7535	1959883.592	-64.77893167	17.71805	2130	cpm	soil	0.25
311356.6287	1959882.662	-64.77892333	17.71804167	2110	cpm	soil	0.25
311357.6755	1959881.176	-64.77891333	17.71802833	2150	cpm	soil	0.25
311357.847	1959880.621	-64.77891167	17.71802333	2190	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
311357.8453	1959880.436	-64.77891167	17.71802167	2330	cpm	soil	0.25
311358.0203	1959880.25	-64.77891	17.71802	2400	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
311359.5887	1959877.837	-64.778895	17.71799833	2360	cpm	soil	0.25
311361.6858	1959875.235	-64.778875	17.717975	2310	cpm	soil	0.25
311363.0861	1959873.746	-64.77886167	17.71796167	2280	cpm	soil	0.25
311364.4847	1959872.072	-64.77884833	17.71794667	2320	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
311367.9786	1959867.612	-64.778815	17.71790667	2030	cpm	soil	0.25
311370.2541	1959865.192	-64.77879333	17.717885	1980	cpm	soil	0.25
311371.8295	1959863.517	-64.77877833	17.71787	1950	cpm	soil	0.25
311372.7047	1959862.586	-64.77877	17.71786167	1920	cpm	soil	0.25
311374.2801	1959860.911	-64.778755	17.71784667	1910	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
311374.8052	1959860.352	-64.77875	17.71784167	1940	cpm	soil	0.25
311374.8052	1959860.352	-64.77875	17.71784167	1880	cpm	soil	0.25
311374.8035	1959860.168	-64.77875	17.71784	1880	cpm	soil	0.25
311374.8035	1959860.168	-64.77875	17.71784	1870	cpm	soil	0.25
311376.0253	1959858.496	-64.77873833	17.717825	1820	cpm	soil	0.25
0*	0*	0*	0*	1780	cpm	soil	0.25
311379.3459	1959854.406	-64.77870667	17.71778833	1770	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
311382.845	1959850.499	-64.77867333	17.71775333	1680	cpm	soil	0.25
311384.2436	1959848.826	-64.77866	17.71773833	1660	cpm	soil	0.25
311384.4169	1959848.455	-64.77865833	17.717735	1640	cpm	soil	0.25
311384.4169	1959848.455	-64.77865833	17.717735	1650	cpm	soil	0.25
311384.4169	1959848.455	-64.77865833	17.717735	1610	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311384.4169	1959848.455	-64.77865833	17.717735	1630	cpm	soil	0.25
311384.9385	1959847.528	-64.77865333	17.71772667	1610	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
311387.0286	1959844.187	-64.77863333	17.71769667	1610	cpm	soil	0.25
311388.0701	1959842.148	-64.77862333	17.71767833	1570	cpm	soil	0.25
311388.59	1959841.037	-64.77861833	17.71766833	1560	cpm	soil	0.25
311388.9297	1959839.557	-64.778615	17.717655	1550	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1530	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1520	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1520	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1550	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1520	cpm	soil	0.25
311388.3749	1959836.98	-64.77862	17.71763167	1500	cpm	soil	0.25
311387.4701	1959834.775	-64.77862833	17.71761167	1480	cpm	soil	0.25
0*	0*	0*	0*	1450	cpm	soil	0.25
0*	0*	0*	0*	1460	cpm	soil	0.25
311382.6323	1959827.995	-64.77867333	17.71755	1490	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
311377.6387	1959823.43	-64.77872	17.71750833	1570	cpm	soil	0.25
311376.5676	1959822.333	-64.77873	17.71749833	1560	cpm	soil	0.25
311376.5676	1959822.333	-64.77873	17.71749833	1610	cpm	soil	0.25
311376.5676	1959822.333	-64.77873	17.71749833	1700	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311376.5676	1959822.333	-64.77873	17.71749833	1860	cpm	soil	0.25
311375.5016	1959821.79	-64.77874	17.71749333	1890	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
311373.3715	1959820.888	-64.77876	17.717485	1900	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
311371.7717	1959819.981	-64.778775	17.71747667	1870	cpm	soil	0.25
311370.7075	1959819.622	-64.778785	17.71747333	1910	cpm	soil	0.25
311366.6292	1959818.369	-64.77882333	17.71746167	1890	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311361.3168	1959817.497	-64.77887333	17.71745333	1810	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
311357.7776	1959817.161	-64.77890667	17.71745	1700	cpm	soil	0.25
311355.4777	1959816.998	-64.77892833	17.71744833	1640	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
311350.6957	1959816.121	-64.77897333	17.71744	1620	cpm	soil	0.25
311347.5153	1959816.336	-64.77900333	17.71744167	1650	cpm	soil	0.25
311346.4563	1959816.53	-64.77901333	17.71744333	1650	cpm	soil	0.25
311345.3956	1959816.54	-64.77902333	17.71744333	1640	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
311340.6259	1959816.954	-64.77906833	17.71744667	1670	cpm	soil	0.25
311337.9758	1959817.164	-64.77909333	17.71744833	1680	cpm	soil	0.25
311335.324	1959817.189	-64.77911833	17.71744833	1720	cpm	soil	0.25
311333.9115	1959817.387	-64.77913167	17.71745	1730	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	1700	cpm	soil	0.25
0*	0*	0*	0*	1680	cpm	soil	0.25
311324.2004	1959818.77	-64.77922333	17.71746167	1690	cpm	soil	0.25
311321.5556	1959819.533	-64.77924833	17.71746833	1710	cpm	soil	0.25
311320.3216	1959819.913	-64.77926	17.71747167	1700	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
311311.5119	1959823.133	-64.77934333	17.7175	1810	cpm	soil	0.25
311309.2259	1959824.446	-64.779365	17.71751167	1820	cpm	soil	0.25
311307.1149	1959825.573	-64.779385	17.71752167	1820	cpm	soil	0.25
311305.0057	1959826.884	-64.779405	17.71753333	1820	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311301.8462	1959829.312	-64.779435	17.717555	1830	cpm	soil	0.25
311299.9172	1959830.99	-64.77945333	17.71757	1810	cpm	soil	0.25
311297.1096	1959833.231	-64.77948	17.71759	1790	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
311294.1269	1959835.657	-64.77950833	17.71761167	1720	cpm	soil	0.25
311291.4978	1959838.08	-64.77953333	17.71763333	1690	cpm	soil	0.25
311289.9224	1959839.755	-64.77954833	17.71764833	1640	cpm	soil	0.25
311289.2222	1959840.5	-64.779555	17.717655	1610	cpm	soil	0.25
311288.5238	1959841.429	-64.77956167	17.71766333	1580	cpm	soil	0.25
311286.0749	1959844.219	-64.779585	17.71768833	1550	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
311286.6332	1959847.166	-64.77958	17.717715	1530	cpm	soil	0.25
311289.089	1959845.113	-64.77955667	17.71769667	1490	cpm	soil	0.25
311290.141	1959844.181	-64.77954667	17.71768833	1500	cpm	soil	0.25
311292.9452	1959841.572	-64.77952	17.717665	1500	cpm	soil	0.25
311294.8741	1959839.893	-64.77950167	17.71765	1500	cpm	soil	0.25
311296.4513	1959838.402	-64.77948667	17.71763667	1520	cpm	soil	0.25
311297.3282	1959837.656	-64.77947833	17.71763	1550	cpm	soil	0.25
311299.4322	1959835.792	-64.77945833	17.71761333	1600	cpm	soil	0.25
311302.5882	1959832.994	-64.77942833	17.71758833	1650	cpm	soil	0.25
311304.8707	1959831.313	-64.77940667	17.71757333	1680	cpm	soil	0.25
311306.9765	1959829.632	-64.77938667	17.71755833	1720	cpm	soil	0.25
311307.6801	1959829.257	-64.77938	17.717555	1830	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311307.8552	1959829.071	-64.77937833	17.71755333	1870	cpm	soil	0.25
311307.8552	1959829.071	-64.77937833	17.71755333	1880	cpm	soil	0.25
311309.7876	1959827.761	-64.77936	17.71754167	1950	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311313.1291	1959825.885	-64.77932833	17.717525	1920	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311319.4673	1959823.058	-64.77926833	17.7175	1860	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311324.7552	1959821.347	-64.77921833	17.717485	1830	cpm	soil	0.25
311327.4017	1959820.769	-64.77919333	17.71748	1830	cpm	soil	0.25
311328.8126	1959820.387	-64.77918	17.71747667	1820	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311332.6966	1959819.796	-64.77914333	17.71747167	1820	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311343.8202	1959818.215	-64.77903833	17.71745833	1780	cpm	soil	0.25
311346.6505	1959818.373	-64.77901167	17.71746	1780	cpm	soil	0.25
311349.4826	1959818.715	-64.778985	17.71746333	1740	cpm	soil	0.25
311352.3164	1959819.242	-64.77895833	17.71746833	1710	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
311357.6305	1959820.299	-64.77890833	17.71747833	1610	cpm	soil	0.25
311360.4643	1959820.825	-64.77888167	17.71748333	1610	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
311365.7836	1959822.435	-64.77883167	17.71749833	1620	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
311370.9383	1959825.338	-64.77878333	17.717525	1640	cpm	soil	0.25
311372.3595	1959826.063	-64.77877	17.71753167	1670	cpm	soil	0.25
311374.852	1959827.884	-64.77874667	17.71754833	1680	cpm	soil	0.25
311378.4139	1959830.617	-64.77871333	17.71757333	1710	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
311382.8666	1959834.08	-64.77867167	17.717605	1690	cpm	soil	0.25
311385.0038	1959835.721	-64.77865167	17.71762	1670	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
311387.5067	1959838.649	-64.77862833	17.71764667	1670	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
311389.3146	1959842.874	-64.77861167	17.717685	1600	cpm	soil	0.25
311388.0789	1959843.071	-64.77862333	17.71768667	1590	cpm	soil	0.25
311387.1897	1959842.526	-64.77863167	17.71768167	1590	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
311381.8478	1959838.518	-64.77868167	17.717645	1510	cpm	soil	0.25
311379.7106	1959836.877	-64.77870167	17.71763	1500	cpm	soil	0.25
311377.5735	1959835.237	-64.77872167	17.717615	1500	cpm	soil	0.25
311375.2579	1959833.414	-64.77874333	17.71759833	1520	cpm	soil	0.25
311374.0151	1959832.873	-64.778755	17.71759333	1500	cpm	soil	0.25
311371.3459	1959831.053	-64.77878	17.71757667	1520	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
311366.5517	1959828.885	-64.778825	17.71755667	1530	cpm	soil	0.25
311365.309	1959828.343	-64.77883667	17.71755167	1580	cpm	soil	0.25
311361.229	1959826.906	-64.778875	17.71753833	1620	cpm	soil	0.25
311358.3952	1959826.379	-64.77890167	17.71753333	1630	cpm	soil	0.25
311355.3828	1959825.67	-64.77893	17.71752667	1620	cpm	soil	0.25
311353.9668	1959825.499	-64.77894333	17.717525	1580	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
311348.1224	1959824.447	-64.77899833	17.717515	1600	cpm	soil	0.25
311343.8778	1959824.303	-64.77903833	17.71751333	1610	cpm	soil	0.25
311340.8724	1959824.331	-64.77906667	17.71751333	1590	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311332.2168	1959825.151	-64.77914833	17.71752	1620	cpm	soil	0.25
311329.3935	1959825.731	-64.779175	17.717525	1610	cpm	soil	0.25
311328.1595	1959826.112	-64.77918667	17.71752833	1620	cpm	soil	0.25
311323.9323	1959827.812	-64.77922667	17.71754333	1630	cpm	soil	0.25
311321.1142	1959828.945	-64.77925333	17.71755333	1670	cpm	soil	0.25
311318.4746	1959830.262	-64.77927833	17.717565	1730	cpm	soil	0.25
311315.6582	1959831.58	-64.779305	17.71757667	1790	cpm	soil	0.25
311313.0204	1959833.08	-64.77933	17.71759	1820	cpm	soil	0.25
311311.7898	1959833.83	-64.77934167	17.71759667	1850	cpm	soil	0.25
311309.152	1959835.331	-64.77936667	17.71761	1870	cpm	soil	0.25
311305.4639	1959837.948	-64.77940167	17.71763333	1850	cpm	soil	0.25
311303.1848	1959839.999	-64.77942333	17.71765167	1830	cpm	soil	0.25
311301.0826	1959842.048	-64.77944333	17.71767	1790	cpm	soil	0.25
311298.9803	1959844.097	-64.77946333	17.71768833	1750	cpm	soil	0.25
311297.2299	1959845.959	-64.77948	17.717705	1700	cpm	soil	0.25
0*	0*	0*	0*	1680	cpm	soil	0.25
311293.3755	1959849.685	-64.77951667	17.71773833	1640	cpm	soil	0.25
311291.9787	1959851.543	-64.77953	17.717755	1610	cpm	soil	0.25
311292.1642	1959852.463	-64.77952833	17.71776333	1600	cpm	soil	0.25
311294.4711	1959853.364	-64.77950667	17.71777167	1580	cpm	soil	0.25
311296.4018	1959851.87	-64.77948833	17.71775833	1540	cpm	soil	0.25
311297.6323	1959851.12	-64.77947667	17.71775167	1550	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
311302.7312	1959848.12	-64.77942833	17.717725	1560	cpm	soil	0.25
311306.5996	1959845.87	-64.77939167	17.717705	1600	cpm	soil	0.25
0*	0*	0*	0*	1660	cpm	soil	0.25
311311.6985	1959842.87	-64.77934333	17.71767833	1630	cpm	soil	0.25
311313.9828	1959841.373	-64.77932167	17.717665	1670	cpm	soil	0.25
311316.4456	1959840.058	-64.77929833	17.71765333	1710	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
311320.1424	1959838.363	-64.77926333	17.71763833	1690	cpm	soil	0.25
311323.8392	1959836.668	-64.77922833	17.71762333	1700	cpm	soil	0.25
311326.3055	1959835.722	-64.779205	17.717615	1710	cpm	soil	0.25
311327.7163	1959835.34	-64.77919167	17.71761167	1790	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
311333.3543	1959833.257	-64.77913833	17.71759333	1780	cpm	soil	0.25
311334.59	1959833.061	-64.77912667	17.71759167	1760	cpm	soil	0.25
311338.6526	1959832.654	-64.77908833	17.71758833	1800	cpm	soil	0.25
311341.4812	1959832.627	-64.77906167	17.71758833	1790	cpm	soil	0.25
311344.1348	1959832.786	-64.77903667	17.71759	1750	cpm	soil	0.25
311346.7865	1959832.761	-64.77901167	17.71759	1730	cpm	soil	0.25
311349.6186	1959833.103	-64.778985	17.71759333	1680	cpm	soil	0.25
311350.8579	1959833.276	-64.77897333	17.717595	1650	cpm	soil	0.25
311354.7524	1959833.793	-64.77893667	17.7176	1680	cpm	soil	0.25
311357.2326	1959834.323	-64.77891333	17.717605	1680	cpm	soil	0.25
311359.8931	1959835.22	-64.77888833	17.71761333	1680	cpm	soil	0.25
311361.1359	1959835.762	-64.77887667	17.71761833	1690	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311364.514	1959837.759	-64.778845	17.71763667	1690	cpm	soil	0.25
311367.0029	1959839.211	-64.77882167	17.71765	1650	cpm	soil	0.25
311368.2474	1959839.937	-64.77881	17.71765667	1640	cpm	soil	0.25
311370.7399	1959841.759	-64.77878667	17.71767333	1640	cpm	soil	0.25
311372.7002	1959843.4	-64.77876833	17.71768833	1660	cpm	soil	0.25
311375.9068	1959845.953	-64.77873833	17.71771167	1660	cpm	soil	0.25
311376.7994	1959846.867	-64.77873	17.71772	1650	cpm	soil	0.25
311380.006	1959849.419	-64.7787	17.71774333	1640	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
311382.6857	1959852.345	-64.778675	17.71777	1610	cpm	soil	0.25
311381.8052	1959852.723	-64.77868333	17.71777333	1590	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
311377.1931	1959851.106	-64.77872667	17.71775833	1550	cpm	soil	0.25
311375.0594	1959849.835	-64.77874667	17.71774667	1520	cpm	soil	0.25
311372.749	1959848.565	-64.77876833	17.717735	1520	cpm	soil	0.25
311371.5045	1959847.839	-64.77878	17.71772833	1560	cpm	soil	0.25
311367.9514	1959846.028	-64.77881333	17.71771167	1590	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
311362.6234	1959843.496	-64.77886333	17.71768833	1610	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
311357.8292	1959841.327	-64.77890833	17.71766833	1580	cpm	soil	0.25
311354.1045	1959840.071	-64.77894333	17.71765667	1640	cpm	soil	0.25
311351.4458	1959839.358	-64.77896833	17.71765	1690	cpm	soil	0.25
311348.7887	1959838.83	-64.77899333	17.717645	1720	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
311342.2442	1959838.523	-64.779055	17.71764167	1780	cpm	soil	0.25
311339.5941	1959838.732	-64.77908	17.71764333	1820	cpm	soil	0.25
311335.1814	1959839.512	-64.77912167	17.71765	1890	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311329.722	1959841.777	-64.77917333	17.71767	1950	cpm	soil	0.25
311327.0824	1959843.094	-64.77919833	17.71768167	1970	cpm	soil	0.25
311324.6231	1959844.777	-64.77922167	17.71769667	1980	cpm	soil	0.25
311321.8119	1959846.649	-64.77924833	17.71771333	2010	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
311317.0736	1959850.383	-64.77929333	17.71774667	2010	cpm	soil	0.25
311314.6195	1959852.62	-64.77931667	17.71776667	1990	cpm	soil	0.25
311313.746	1959853.735	-64.779325	17.71777667	1980	cpm	soil	0.25
311310.7686	1959856.715	-64.77935333	17.71780333	2000	cpm	soil	0.25
311309.8951	1959857.83	-64.77936167	17.71781333	2000	cpm	soil	0.25
311307.6178	1959860.065	-64.77938333	17.71783333	2030	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311305.1707	1959863.04	-64.77940667	17.71786	1910	cpm	soil	0.25
311305.897	1959865.062	-64.7794	17.71787833	1870	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311307.6544	1959863.939	-64.77938333	17.71786833	1830	cpm	soil	0.25
311309.4049	1959862.078	-64.77936667	17.71785167	1830	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311311.6839	1959860.027	-64.779345	17.71783333	1840	cpm	soil	0.25
311315.0149	1959857.044	-64.77931333	17.71780667	1840	cpm	soil	0.25
311317.294	1959854.993	-64.77929167	17.71778833	1870	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311321.5002	1959851.079	-64.77925167	17.71775333	1830	cpm	soil	0.25
311322.3754	1959850.148	-64.77924333	17.717745	1840	cpm	soil	0.25
311324.6579	1959848.466	-64.77922167	17.71773	1850	cpm	soil	0.25
311326.9422	1959846.969	-64.7792	17.71771667	1910	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311336.102	1959843.377	-64.77911333	17.717685	1960	cpm	soil	0.25
311340.1628	1959842.786	-64.779075	17.71768	1970	cpm	soil	0.25
311341.4003	1959842.774	-64.77906333	17.71768	1920	cpm	soil	0.25
311345.2931	1959843.106	-64.77902667	17.71768333	1890	cpm	soil	0.25
311347.9501	1959843.634	-64.77900167	17.71768833	1910	cpm	soil	0.25
311350.6106	1959844.532	-64.77897667	17.71769667	1920	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
311354.3388	1959846.157	-64.77894167	17.71771167	1900	cpm	soil	0.25
311357.8955	1959848.337	-64.77890833	17.71773167	1860	cpm	soil	0.25
311360.2094	1959849.975	-64.77888667	17.71774667	1830	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311363.416	1959852.528	-64.77885667	17.71777	1810	cpm	soil	0.25
311365.3763	1959854.169	-64.77883833	17.717785	1780	cpm	soil	0.25
311368.4078	1959856.908	-64.77881	17.71781	1780	cpm	soil	0.25
311370.727	1959859.1	-64.77878833	17.71783	1740	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
311373.4136	1959862.764	-64.77876333	17.71786333	1720	cpm	soil	0.25
311372.1831	1959863.513	-64.778775	17.71787	1720	cpm	soil	0.25
311369.5243	1959862.801	-64.7788	17.71786333	1690	cpm	soil	0.25
311367.5657	1959861.343	-64.77881833	17.71785	1660	cpm	soil	0.25
311366.498	1959860.615	-64.77882833	17.71784333	1660	cpm	soil	0.25
311363.2915	1959858.063	-64.77885833	17.71782	1670	cpm	soil	0.25
311362.4006	1959857.334	-64.77886667	17.71781333	1690	cpm	soil	0.25
311359.1923	1959854.597	-64.77889667	17.71778833	1730	cpm	soil	0.25
311357.0569	1959853.141	-64.77891667	17.717775	1760	cpm	soil	0.25
311354.5679	1959851.689	-64.77894	17.71776167	1740	cpm	soil	0.25
311353.5002	1959850.961	-64.77895	17.717755	1780	cpm	soil	0.25
311349.422	1959849.708	-64.77898833	17.71774333	1850	cpm	soil	0.25
311346.7649	1959849.18	-64.77901333	17.71773833	1910	cpm	soil	0.25
311345.1739	1959849.195	-64.77902833	17.71773833	1940	cpm	soil	0.25
311342.3453	1959849.222	-64.779055	17.71773833	1930	cpm	soil	0.25
311337.9274	1959849.448	-64.77909667	17.71774	1890	cpm	soil	0.25
311335.1058	1959850.212	-64.77912333	17.71774667	1940	cpm	soil	0.25
311332.2877	1959851.346	-64.77915	17.71775667	1950	cpm	soil	0.25
311330.8803	1959852.097	-64.77916333	17.71776333	1940	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311327.012	1959854.347	-64.7792	17.71778333	1950	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311323.3239	1959856.965	-64.779235	17.71780667	1930	cpm	soil	0.25
311321.0448	1959859.016	-64.77925667	17.717825	1920	cpm	soil	0.25
311317.8906	1959861.997	-64.77928667	17.71785167	1950	cpm	soil	0.25
311317.0154	1959862.928	-64.779295	17.71786	2030	cpm	soil	0.25
311314.3897	1959865.72	-64.77932	17.717885	2010	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311311.9566	1959870.17	-64.77934333	17.717925	1940	cpm	soil	0.25
311313.2063	1959871.45	-64.77933167	17.71793667	1950	cpm	soil	0.25
311314.9654	1959870.511	-64.779315	17.71792833	1890	cpm	soil	0.25
311317.7679	1959867.717	-64.77928833	17.71790333	1860	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
311320.5668	1959864.555	-64.77926167	17.717875	1920	cpm	soil	0.25
311323.1837	1959860.84	-64.77923667	17.71784167	1960	cpm	soil	0.25
311324.7539	1959858.612	-64.77922167	17.71782167	1940	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311327.3795	1959855.82	-64.77919667	17.71779667	1970	cpm	soil	0.25
311330.1871	1959853.58	-64.77917	17.71777667	1960	cpm	soil	0.25
311332.2981	1959852.453	-64.77915	17.71776667	1990	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
311337.7593	1959850.372	-64.77909833	17.71774833	1990	cpm	soil	0.25
311340.2308	1959849.98	-64.779075	17.717745	2030	cpm	soil	0.25
311343.9451	1959850.129	-64.77904	17.71774667	2000	cpm	soil	0.25
311345.3611	1959850.3	-64.77902667	17.71774833	2030	cpm	soil	0.25
311349.0823	1959851.187	-64.77899167	17.71775667	2040	cpm	soil	0.25
311351.3875	1959851.903	-64.77897	17.71776333	2090	cpm	soil	0.25
311353.1624	1959852.624	-64.77895333	17.71777	2120	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311358.3293	1959856.819	-64.778905	17.71780833	2080	cpm	soil	0.25
311359.2219	1959857.733	-64.77889667	17.71781667	2080	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
311363.6869	1959862.487	-64.778855	17.71786	2030	cpm	soil	0.25
311364.9383	1959863.951	-64.77884333	17.71787333	1960	cpm	soil	0.25
311366.7219	1959865.594	-64.77882667	17.71788833	1930	cpm	soil	0.25
311367.6145	1959866.508	-64.77881833	17.71789667	1850	cpm	soil	0.25
311368.6892	1959867.974	-64.77880833	17.71791	1790	cpm	soil	0.25
311367.1156	1959869.833	-64.77882333	17.71792667	1750	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
311363.3752	1959866.917	-64.77885833	17.7179	1710	cpm	soil	0.25
311361.7667	1959865.088	-64.77887333	17.71788333	1740	cpm	soil	0.25
311360.1582	1959863.258	-64.77888833	17.71786667	1780	cpm	soil	0.25
311359.2655	1959862.344	-64.77889667	17.71785833	1820	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311357.657	1959860.515	-64.77891167	17.71784167	1880	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2110	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2180	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2170	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2130	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2110	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2120	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2210	cpm	soil	0.25
311354.4522	1959858.147	-64.77894167	17.71782	2210	cpm	soil	0.25
311351.965	1959856.879	-64.778965	17.71780833	2270	cpm	soil	0.25
311350.5454	1959856.339	-64.77897833	17.71780333	2320	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311346.1188	1959855.643	-64.77902	17.71779667	2380	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
311344.8796	1959855.47	-64.77903167	17.717795	2370	cpm	soil	0.25
311342.0527	1959855.681	-64.77905833	17.71779667	2380	cpm	soil	0.25
311339.4079	1959856.444	-64.77908333	17.71780333	2340	cpm	soil	0.25
311336.7631	1959857.207	-64.77910833	17.71781	2420	cpm	soil	0.25
311334.2968	1959858.153	-64.77913167	17.71781833	2440	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
311330.9588	1959860.398	-64.77916333	17.71783833	2520	cpm	soil	0.25
311327.8028	1959863.195	-64.77919333	17.71786333	2450	cpm	soil	0.25
311325.8756	1959865.058	-64.77921167	17.71788	2400	cpm	soil	0.25
311324.6555	1959866.914	-64.77922333	17.71789667	2430	cpm	soil	0.25
311323.2604	1959868.957	-64.77923667	17.717915	2390	cpm	soil	0.25
311322.2172	1959870.811	-64.77924667	17.71793167	2360	cpm	soil	0.25
311320.647	1959873.04	-64.77926167	17.71795167	2290	cpm	soil	0.25
311319.7823	1959875.077	-64.77927	17.71797	2240	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311321.2122	1959876.724	-64.77925667	17.717985	2170	cpm	soil	0.25
311321.9159	1959876.348	-64.77925	17.71798167	2130	cpm	soil	0.25
311321.9159	1959876.348	-64.77925	17.71798167	2110	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311324.0216	1959874.668	-64.77923	17.71796667	2170	cpm	soil	0.25
311326.1169	1959871.881	-64.77921	17.71794167	2210	cpm	soil	0.25
311326.9904	1959870.766	-64.77920167	17.71793167	2260	cpm	soil	0.25
311328.564	1959868.907	-64.77918667	17.717915	2270	cpm	soil	0.25
311331.0111	1959865.932	-64.77916333	17.71788833	2320	cpm	soil	0.25
311332.7633	1959864.255	-64.77914667	17.71787333	2450	cpm	soil	0.25
311334.3422	1959862.949	-64.77913167	17.71786167	2560	cpm	soil	0.25
311337.1585	1959861.631	-64.779105	17.71785	2600	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311339.6266	1959860.869	-64.77908167	17.71784333	2590	cpm	soil	0.25
311342.0981	1959860.477	-64.77905833	17.71784	2640	cpm	soil	0.25
311343.3356	1959860.465	-64.77904667	17.71784	2590	cpm	soil	0.25
311345.9891	1959860.625	-64.77902167	17.71784167	2690	cpm	soil	0.25
311349.3637	1959862.253	-64.77899	17.71785667	2800	cpm	soil	0.25
311351.1473	1959863.897	-64.77897333	17.71787167	2770	cpm	soil	0.25
311352.7575	1959865.911	-64.77895833	17.71789	2740	cpm	soil	0.25
311353.6502	1959866.825	-64.77895	17.71789833	2720	cpm	soil	0.25
311355.9798	1959870.123	-64.77892833	17.71792833	2700	cpm	soil	0.25
311357.7686	1959872.32	-64.77891167	17.71794833	2590	cpm	soil	0.25
311359.2038	1959874.52	-64.77889833	17.71796833	2480	cpm	soil	0.25
0*	0*	0*	0*	2380	cpm	soil	0.25
311359.405	1959877.101	-64.77889667	17.71799167	2300	cpm	soil	0.25
311356.5572	1959875.099	-64.77892333	17.71797333	2330	cpm	soil	0.25
311354.9435	1959872.716	-64.77893833	17.71795167	2330	cpm	soil	0.25
311353.3315	1959870.517	-64.77895333	17.71793167	2320	cpm	soil	0.25
311351.7195	1959868.319	-64.77896833	17.71791167	2350	cpm	soil	0.25
311351.0036	1959867.403	-64.778975	17.71790333	2480	cpm	soil	0.25
311348.681	1959864.842	-64.77899667	17.71788	2490	cpm	soil	0.25
0*	0*	0*	0*	2530	cpm	soil	0.25
311343.535	1959862.862	-64.779045	17.71786167	2610	cpm	soil	0.25
311340.3511	1959862.707	-64.779075	17.71786	2630	cpm	soil	0.25
311338.7636	1959863.091	-64.77909	17.71786333	2700	cpm	soil	0.25
311335.2522	1959865.707	-64.77912333	17.71788667	2690	cpm	soil	0.25
0*	0*	0*	0*	2720	cpm	soil	0.25
311333.15	1959867.756	-64.77914333	17.717905	2750	cpm	soil	0.25
311329.8207	1959870.924	-64.779175	17.71793333	2750	cpm	soil	0.25
311328.0703	1959872.785	-64.77919167	17.71795	2730	cpm	soil	0.25
311326.4949	1959874.46	-64.77920667	17.717965	2660	cpm	soil	0.25
311324.7497	1959876.875	-64.77922333	17.71798667	2550	cpm	soil	0.25
311324.0548	1959878.173	-64.77923	17.71799833	2500	cpm	soil	0.25
311324.9683	1959881.301	-64.77922167	17.71802667	2500	cpm	soil	0.25
311327.0793	1959880.174	-64.77920167	17.71801667	2560	cpm	soil	0.25
311329.0065	1959878.311	-64.77918333	17.718	2500	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
311332.3219	1959873.667	-64.77915167	17.71795833	2540	cpm	soil	0.25
311334.0671	1959871.253	-64.779135	17.71793667	2520	cpm	soil	0.25
311335.1173	1959870.136	-64.779125	17.71792667	2550	cpm	soil	0.25
311337.7551	1959868.635	-64.7791	17.71791333	2590	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
311344.6603	1959869.677	-64.779035	17.71792333	2600	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
311348.0471	1959872.596	-64.77900333	17.71795	2680	cpm	soil	0.25
311351.0786	1959875.335	-64.778975	17.717975	2680	cpm	soil	0.25
0*	0*	0*	0*	2690	cpm	soil	0.25
311355.3546	1959878.8	-64.778935	17.71800667	2630	cpm	soil	0.25
311356.4327	1959880.634	-64.778925	17.71802333	2690	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2630	cpm	soil	0.25
311353.4204	1959879.925	-64.77895333	17.71801667	2650	cpm	soil	0.25
311350.0336	1959877.005	-64.778985	17.71799	2700	cpm	soil	0.25
311347.7179	1959875.182	-64.77900667	17.71797333	2750	cpm	soil	0.25
311346.4717	1959874.272	-64.77901833	17.717965	2740	cpm	soil	0.25
311342.74	1959872.278	-64.77905333	17.71794667	2740	cpm	soil	0.25
311339.5614	1959872.677	-64.77908333	17.71795	2770	cpm	soil	0.25
311336.7485	1959874.364	-64.77911	17.717965	2790	cpm	soil	0.25
311334.2927	1959876.416	-64.77913333	17.71798333	2750	cpm	soil	0.25
311332.0154	1959878.651	-64.779155	17.71800333	2740	cpm	soil	0.25
311329.9166	1959881.069	-64.779175	17.718025	2690	cpm	soil	0.25
311328.5232	1959883.296	-64.77918833	17.718045	2630	cpm	soil	0.25
311329.9515	1959884.759	-64.779175	17.71805833	2580	cpm	soil	0.25
311331.8857	1959883.633	-64.77915667	17.71804833	2540	cpm	soil	0.25
311333.1144	1959882.699	-64.779145	17.71804	2540	cpm	soil	0.25
311336.0902	1959879.535	-64.77911667	17.71801167	2520	cpm	soil	0.25
311337.1404	1959878.418	-64.77910667	17.71800167	2550	cpm	soil	0.25
311339.2409	1959876.185	-64.77908667	17.71798167	2600	cpm	soil	0.25
311343.1285	1959875.963	-64.77905	17.71798	2670	cpm	soil	0.25
311344.5515	1959876.872	-64.77903667	17.71798833	2610	cpm	soil	0.25
311348.1134	1959879.606	-64.77900333	17.71801333	2650	cpm	soil	0.25
311349.3596	1959880.517	-64.77899167	17.71802167	2700	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
311353.2802	1959883.8	-64.778955	17.71805167	2550	cpm	soil	0.25
311352.587	1959885.282	-64.77896167	17.718065	2490	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
311347.2451	1959881.274	-64.77901167	17.71802833	2600	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
0*	0*	0*	0*	2500	cpm	soil	0.25
311339.2653	1959878.767	-64.77908667	17.718005	2510	cpm	soil	0.25
311336.806	1959880.451	-64.77911	17.71802	2550	cpm	soil	0.25
311334.527	1959882.502	-64.77913167	17.71803833	2510	cpm	soil	0.25
311332.423	1959884.366	-64.77915167	17.718055	2490	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
311333.5046	1959886.57	-64.77914167	17.718075	2380	cpm	soil	0.25
311336.8409	1959884.14	-64.77911	17.71805333	2360	cpm	soil	0.25
311339.1269	1959882.827	-64.77908833	17.71804167	2490	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
311344.6125	1959883.329	-64.77903667	17.71804667	2650	cpm	soil	0.25
0*	0*	0*	0*	2720	cpm	soil	0.25
311349.4154	1959886.419	-64.77899167	17.718075	2620	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311345.7029	1959886.454	-64.77902667	17.718075	2450	cpm	soil	0.25
311343.3907	1959885	-64.77904833	17.71806167	2480	cpm	soil	0.25
311340.3888	1959885.398	-64.77907667	17.718065	2530	cpm	soil	0.25
311339.1583	1959886.147	-64.77908833	17.71807167	2500	cpm	soil	0.25
311336.7077	1959888.753	-64.77911167	17.718095	2520	cpm	soil	0.25

Table 33: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2510	cpm	soil	0.25
311339.7166	1959889.094	-64.77908333	17.71809833	2450	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
311344.6596	1959888.309	-64.77903667	17.71809167	2490	cpm	soil	0.25
311346.795	1959889.765	-64.77901667	17.718105	2560	cpm	soil	0.25
311347.8627	1959890.492	-64.77900667	17.71811167	2580	cpm	soil	0.25
311346.9892	1959891.608	-64.779015	17.71812167	2520	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
311344.5055	1959890.709	-64.77903833	17.71811333	2660	cpm	soil	0.25
311340.1033	1959892.595	-64.77908	17.71813	2670	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
311344.8852	1959893.472	-64.779035	17.71813833	2660	cpm	soil	0.25
311345.9424	1959893.093	-64.779025	17.718135	2690	cpm	soil	0.25
311346.9979	1959892.53	-64.779015	17.71813	2630	cpm	soil	0.25
311350.1591	1959890.286	-64.778985	17.71811	2550	cpm	soil	0.25
311351.7362	1959888.796	-64.77897	17.71809667	2450	cpm	soil	0.25
311352.6132	1959888.049	-64.77896167	17.71809	2390	cpm	soil	0.25
311353.1348	1959887.122	-64.77895667	17.71808167	2370	cpm	soil	0.25
			Minimum =	**1450**			
			Maximum =	**2800**			
			Median =	**1890**			
			Arithmetic mean =	**1992**			
			One Sigma =	**373**			
			Two Sigma =	**746**			

Average Background =	**5193.75**	**cpm**		
Background +/- One Sigma	**4597**	**to**	**5790**	**cpm**
Background +/- Two Sigma	**4000**	**to**	**6387**	**cpm**

0* - GPS data not available

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311287.9077	1959738.865	-64.77955833	17.71673667	2250	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
311287.7291	1959738.682	-64.77956	17.716735	1990	cpm	soil	0.25
311287.7291	1959738.682	-64.77956	17.716735	2030	cpm	soil	0.25
311287.7291	1959738.682	-64.77956	17.716735	2090	cpm	soil	0.25
311288.2612	1959738.862	-64.779555	17.71673667	2170	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
311290.2286	1959741.241	-64.77953667	17.71675833	2270	cpm	soil	0.25
311290.4123	1959741.978	-64.779535	17.716765	2310	cpm	soil	0.25
311290.9636	1959744.186	-64.77953	17.716785	2330	cpm	soil	0.25
311291.7004	1959747.315	-64.77952333	17.71681333	2210	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311293.3316	1959751.543	-64.77950833	17.71685167	2160	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311295.3146	1959755.583	-64.77949	17.71688833	2330	cpm	soil	0.25
311296.5696	1959757.416	-64.77947833	17.716905	2140	cpm	soil	0.25
311297.6495	1959759.435	-64.77946833	17.71692333	1980	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
311299.8093	1959763.473	-64.77944833	17.71696	2100	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311299.8093	1959763.473	-64.77944833	17.71696	2130	cpm	soil	0.25
311299.8093	1959763.473	-64.77944833	17.71696	1990	cpm	soil	0.25
311299.9931	1959764.209	-64.77944667	17.71696667	1980	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
311303.0543	1959770.083	-64.77941833	17.71702	2130	cpm	soil	0.25
311304.1342	1959772.102	-64.77940833	17.71703833	2270	cpm	soil	0.25
311305.5676	1959774.118	-64.779395	17.71705667	2250	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311307.7327	1959778.709	-64.779375	17.71709833	1930	cpm	soil	0.25
311308.452	1959779.994	-64.77936833	17.71711	1940	cpm	soil	0.25
311309.8977	1959783.301	-64.779355	17.71714	2110	cpm	soil	0.25
311310.9776	1959785.32	-64.779345	17.71715833	2020	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311312.6001	1959788.625	-64.77933	17.71718833	2120	cpm	soil	0.25
311314.0475	1959792.117	-64.77931667	17.71722	1910	cpm	soil	0.25
311315.3042	1959794.134	-64.779305	17.71723833	1990	cpm	soil	0.25
311316.2091	1959796.339	-64.77929667	17.71725833	2120	cpm	soil	0.25
311317.2907	1959798.543	-64.77928667	17.71727833	2180	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
311320.1681	1959803.681	-64.77926	17.717325	2310	cpm	soil	0.25
311321.9639	1959806.615	-64.77924333	17.71735167	2290	cpm	soil	0.25
311322.8705	1959809.005	-64.779235	17.71737333	2250	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311323.7719	1959810.841	-64.77922667	17.71739	2240	cpm	soil	0.25
311324.3162	1959812.312	-64.77922167	17.71740333	2140	cpm	soil	0.25
311325.5659	1959813.592	-64.77921	17.717415	2160	cpm	soil	0.25
311327.6891	1959813.756	-64.77919	17.71741667	1820	cpm	soil	0.25
311329.0929	1959812.636	-64.77917667	17.71740667	1730	cpm	soil	0.25
311328.8952	1959810.424	-64.77917833	17.71738667	1710	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
311327.2745	1959807.303	-64.77919333	17.71735833	1730	cpm	soil	0.25
311325.6485	1959803.629	-64.77920833	17.717325	1880	cpm	soil	0.25
311324.7402	1959801.055	-64.77921667	17.71730167	2010	cpm	soil	0.25
311323.8318	1959798.481	-64.779225	17.71727833	2200	cpm	soil	0.25
311322.5734	1959796.279	-64.77923667	17.71725833	2200	cpm	soil	0.25
311322.0308	1959794.993	-64.77924167	17.71724667	2210	cpm	soil	0.25
311320.2316	1959791.689	-64.77925833	17.71721667	2220	cpm	soil	0.25
311319.1517	1959789.67	-64.77926833	17.71719833	2270	cpm	soil	0.25
311318.6126	1959788.753	-64.77927333	17.71719	2240	cpm	soil	0.25
311317.5222	1959785.627	-64.77928333	17.71716167	2130	cpm	soil	0.25
311316.7976	1959783.789	-64.77929	17.717145	2120	cpm	soil	0.25
311315.5375	1959781.403	-64.77930167	17.71712333	2150	cpm	soil	0.25
311314.6326	1959779.198	-64.77931	17.71710333	2050	cpm	soil	0.25
311313.5509	1959776.994	-64.77932	17.71708333	1870	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
311311.9285	1959773.689	-64.779335	17.71705333	1980	cpm	soil	0.25
311310.306	1959770.384	-64.77935	17.71702333	1850	cpm	soil	0.25
311309.4011	1959768.178	-64.77935833	17.71700333	1840	cpm	soil	0.25
311308.8603	1959767.077	-64.77936333	17.71699333	1860	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
311306.333	1959761.566	-64.77938667	17.71694333	1760	cpm	soil	0.25
311305.0798	1959759.918	-64.77939833	17.71692833	1880	cpm	soil	0.25
311304.7157	1959758.814	-64.77940167	17.71691833	2000	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311302.7257	1959754.037	-64.77942	17.716875	1920	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
311300.1932	1959747.973	-64.77944333	17.71682	1860	cpm	soil	0.25
311299.4756	1959746.873	-64.77945	17.71681	1900	cpm	soil	0.25
311297.6763	1959743.569	-64.77946667	17.71678	2030	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
311295.8753	1959740.081	-64.77948333	17.71674833	2210	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
311293.0031	1959735.496	-64.77951	17.71670667	2360	cpm	soil	0.25
311293.1502	1959732.359	-64.77950833	17.71667833	2350	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
311295.445	1959731.968	-64.77948667	17.716675	2410	cpm	soil	0.25
311297.7676	1959734.529	-64.779465	17.71669833	2480	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
311299.3901	1959737.834	-64.77945	17.71672833	2270	cpm	soil	0.25
311299.9362	1959739.489	-64.779445	17.71674333	2160	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
0*	0*	0*	0*	2260	cpm	soil	0.25
311299.9362	1959739.489	-64.779445	17.71674333	2330	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
0*	0*	0*	0*	2360	cpm	soil	0.25
311299.9362	1959739.489	-64.779445	17.71674333	2400	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
311300.2985	1959740.408	-64.77944167	17.71675167	2330	cpm	soil	0.25
311300.6625	1959741.512	-64.77943833	17.71676167	2650	cpm	soil	0.25
311301.9314	1959744.82	-64.77942667	17.71679167	2530	cpm	soil	0.25
311303.1881	1959746.838	-64.779415	17.71681	2540	cpm	soil	0.25
311304.2697	1959749.041	-64.779405	17.71683	2400	cpm	soil	0.25
311304.8071	1959749.774	-64.7794	17.71683667	2330	cpm	soil	0.25
311305.5334	1959751.796	-64.77939333	17.716855	2180	cpm	soil	0.25
311306.6273	1959755.291	-64.77938333	17.71688667	2260	cpm	soil	0.25
311307.7107	1959757.679	-64.77937333	17.71690833	2170	cpm	soil	0.25
311308.43	1959758.964	-64.77936667	17.71692	2150	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
311312.3995	1959767.412	-64.77933	17.71699667	1980	cpm	soil	0.25
311312.9404	1959768.514	-64.779325	17.71700667	2000	cpm	soil	0.25
311314.3895	1959772.19	-64.77931167	17.71704	2140	cpm	soil	0.25
311315.2944	1959774.395	-64.77930333	17.71706	1940	cpm	soil	0.25
311315.6602	1959775.683	-64.7793	17.71707167	1930	cpm	soil	0.25
311317.1076	1959779.174	-64.77928667	17.71710333	1840	cpm	soil	0.25
311317.6484	1959780.276	-64.77928167	17.71711333	1960	cpm	soil	0.25
311319.6314	1959784.316	-64.77926333	17.71715	1890	cpm	soil	0.25
311320.7148	1959786.704	-64.77925333	17.71717167	1940	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311322.3373	1959790.009	-64.77923833	17.71720167	2280	cpm	soil	0.25
311324.1366	1959793.313	-64.77922167	17.71723167	2200	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
311325.9358	1959796.616	-64.779205	17.71726167	2180	cpm	soil	0.25
311327.1995	1959799.371	-64.77919333	17.71728667	2140	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311329.0057	1959803.413	-64.77917667	17.71732333	2310	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311329.9193	1959806.54	-64.77916833	17.71735167	1890	cpm	soil	0.25
311330.4671	1959808.38	-64.77916333	17.71736833	1850	cpm	soil	0.25
311331.7168	1959809.659	-64.77915167	17.71738	1780	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
311333.6283	1959806.136	-64.77913333	17.71734833	1780	cpm	soil	0.25
311332.7217	1959803.747	-64.77914167	17.71732667	1570	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
311330.9172	1959799.89	-64.77915833	17.71729167	1700	cpm	soil	0.25
311330.0106	1959797.5	-64.77916667	17.71727	1840	cpm	soil	0.25
311329.4681	1959796.214	-64.77917167	17.71725833	1960	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311327.4868	1959792.359	-64.77919	17.71722333	2120	cpm	soil	0.25
311326.0498	1959789.974	-64.77920333	17.71720167	2200	cpm	soil	0.25
311325.5125	1959789.241	-64.77920833	17.717195	2140	cpm	soil	0.25
311324.0703	1959786.303	-64.77922167	17.71716833	2030	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311321.9087	1959782.08	-64.77924167	17.71713	2610	cpm	soil	0.25
311321.1911	1959780.98	-64.77924833	17.71712	2660	cpm	soil	0.25
311320.1112	1959778.961	-64.77925833	17.71710167	2310	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
311317.759	1959773.265	-64.77928	17.71705	2220	cpm	soil	0.25
311317.3949	1959772.161	-64.77928333	17.71704	2180	cpm	soil	0.25
311316.1295	1959769.222	-64.779295	17.71701333	2120	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311313.4132	1959762.422	-64.77932	17.71695167	2030	cpm	soil	0.25
311311.7855	1959758.563	-64.779335	17.71691667	1990	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
311309.4349	1959753.051	-64.77935667	17.71686667	1950	cpm	soil	0.25
311307.6357	1959749.747	-64.77937333	17.71683667	2000	cpm	soil	0.25
311307.0966	1959748.83	-64.77937833	17.71682833	2080	cpm	soil	0.25
311305.4741	1959745.525	-64.77939333	17.71679833	2150	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
311303.1236	1959740.013	-64.779415	17.71674833	2240	cpm	soil	0.25
311302.0384	1959737.44	-64.779425	17.716725	2230	cpm	soil	0.25
311300.2252	1959732.661	-64.77944167	17.71668167	2320	cpm	soil	0.25
311299.6844	1959731.559	-64.77944667	17.71667167	2270	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
311298.594	1959728.433	-64.77945667	17.71664333	2230	cpm	soil	0.25
311296.7843	1959724.023	-64.77947333	17.71660333	2430	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
311301.7256	1959723.054	-64.77942667	17.716595	2340	cpm	soil	0.25
311305.4678	1959726.155	-64.77939167	17.71662333	2360	cpm	soil	0.25
311307.0763	1959727.984	-64.77937667	17.71664	2440	cpm	soil	0.25
311307.2636	1959729.089	-64.779375	17.71665	2480	cpm	soil	0.25
311306.7576	1959731.677	-64.77938	17.71667333	2650	cpm	soil	0.25
311306.2499	1959734.08	-64.779385	17.716695	2570	cpm	soil	0.25
311306.6279	1959736.659	-64.77938167	17.71671833	2470	cpm	soil	0.25
311307.531	1959738.68	-64.77937333	17.71673667	2520	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
311307.5345	1959739.049	-64.77937333	17.71674	2770	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
311309.5088	1959742.166	-64.779355	17.71676833	2280	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311311.6686	1959746.204	-64.779335	17.716805	2270	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
0*	0*	0*	0*	2220	cpm	soil	0.25
311313.6499	1959750.059	-64.77931667	17.71684	2180	cpm	soil	0.25
311314.9084	1959752.261	-64.779305	17.71686	2290	cpm	soil	0.25
311315.4509	1959753.548	-64.7793	17.71687167	2260	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311319.9421	1959761.069	-64.77925833	17.71694	2120	cpm	soil	0.25
311321.0237	1959763.272	-64.77924833	17.71696	2060	cpm	soil	0.25
311321.5663	1959764.558	-64.77924333	17.71697167	2180	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
311324.7938	1959769.324	-64.77921333	17.717015	2160	cpm	soil	0.25
311326.0505	1959771.342	-64.77920167	17.71703333	2120	cpm	soil	0.25
311326.9536	1959773.362	-64.77919333	17.71705167	2100	cpm	soil	0.25
311328.3853	1959775.194	-64.77918	17.71706833	1960	cpm	soil	0.25
311329.642	1959777.211	-64.77916833	17.71708667	2070	cpm	soil	0.25
311330.7254	1959779.599	-64.77915833	17.71710833	2250	cpm	soil	0.25
311331.9839	1959781.801	-64.77914667	17.71712833	2440	cpm	soil	0.25
311333.0672	1959784.189	-64.77913667	17.71715	2470	cpm	soil	0.25
0*	0*	0*	0*	2500	cpm	soil	0.25
311334.1646	1959788.052	-64.77912667	17.717185	2330	cpm	soil	0.25
311335.0677	1959790.073	-64.77911833	17.71720333	2400	cpm	soil	0.25
311335.7975	1959792.464	-64.77911167	17.717225	2620	cpm	soil	0.25
311336.7111	1959795.592	-64.77910333	17.71725333	2630	cpm	soil	0.25
0*	0*	0*	0*	2690	cpm	soil	0.25
311337.798	1959798.349	-64.77909333	17.71727833	2500	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311340.3288	1959804.228	-64.77907	17.71733167	1970	cpm	soil	0.25
311340.8748	1959805.883	-64.779065	17.71734667	1800	cpm	soil	0.25
311341.0551	1959806.251	-64.77906333	17.71735	1650	cpm	soil	0.25
311342.6723	1959809.002	-64.77904833	17.717375	1650	cpm	soil	0.25
311344.2774	1959810.463	-64.77903333	17.71738833	1770	cpm	soil	0.25
311345.8649	1959810.079	-64.77901833	17.717385	1710	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
311345.8336	1959806.759	-64.77901833	17.717355	1720	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
311345.6393	1959804.916	-64.77902	17.71733833	1550	cpm	soil	0.25
311345.6393	1959804.916	-64.77902	17.71733833	1510	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
311344.7345	1959802.711	-64.77902833	17.71731833	1640	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
311342.559	1959797.012	-64.77904833	17.71726667	2140	cpm	soil	0.25
311341.8292	1959794.621	-64.779055	17.717245	2360	cpm	soil	0.25
311341.0994	1959792.23	-64.77906167	17.71722333	2380	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311338.7453	1959786.349	-64.77908333	17.71717	2400	cpm	soil	0.25
311337.2944	1959782.488	-64.77909667	17.717135	2450	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311336.0238	1959778.995	-64.77910833	17.71710333	2610	cpm	soil	0.25
311334.7532	1959775.502	-64.77912	17.71707167	2550	cpm	soil	0.25
311334.3909	1959774.583	-64.77912333	17.71706333	2510	cpm	soil	0.25
311333.297	1959771.089	-64.77913333	17.71703167	2520	cpm	soil	0.25
311332.7562	1959769.987	-64.77913833	17.71702167	2430	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
311330.7523	1959763.734	-64.77915667	17.716965	2280	cpm	soil	0.25
311330.2097	1959762.447	-64.77916167	17.71695333	2280	cpm	soil	0.25
311328.764	1959759.14	-64.779175	17.71692333	2300	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
311327.4934	1959755.647	-64.77918667	17.71689167	2140	cpm	soil	0.25
311326.3995	1959752.153	-64.77919667	17.71686	2070	cpm	soil	0.25
311325.8587	1959751.051	-64.77920167	17.71685	2060	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311323.8809	1959747.565	-64.77922	17.71681833	2110	cpm	soil	0.25
311322.2619	1959744.628	-64.779235	17.71679167	2020	cpm	soil	0.25
311321.7228	1959743.711	-64.77924	17.71678333	2280	cpm	soil	0.25
311319.9218	1959740.223	-64.77925667	17.71675167	2480	cpm	soil	0.25
311318.4849	1959737.838	-64.77927	17.71673	2480	cpm	soil	0.25
311316.8589	1959734.164	-64.779285	17.71669667	2520	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
311315.0562	1959730.492	-64.77930167	17.71666333	2380	cpm	soil	0.25
311313.6087	1959727	-64.779315	17.71663167	2560	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311318.9246	1959728.241	-64.779265	17.71664333	2320	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
311320.0167	1959731.552	-64.779255	17.71667333	2500	cpm	soil	0.25
311320.0167	1959731.552	-64.779255	17.71667333	2650	cpm	soil	0.25
311320.3859	1959733.208	-64.77925167	17.71668833	2640	cpm	soil	0.25
311320.9355	1959735.232	-64.77924667	17.71670667	2710	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
311322.5736	1959740.198	-64.77923167	17.71675167	2630	cpm	soil	0.25
311324.0089	1959742.398	-64.77921833	17.71677167	2420	cpm	soil	0.25
311324.7352	1959744.42	-64.77921167	17.71679	2310	cpm	soil	0.25
311325.4615	1959746.443	-64.779205	17.71680833	2520	cpm	soil	0.25
311326.1896	1959748.65	-64.77919833	17.71682833	2410	cpm	soil	0.25
311326.7409	1959750.858	-64.77919333	17.71684833	2250	cpm	soil	0.25
311327.6492	1959753.432	-64.779185	17.71687167	2330	cpm	soil	0.25
311328.3773	1959755.639	-64.77917833	17.71689167	2340	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
311329.823	1959758.946	-64.779165	17.71692167	2310	cpm	soil	0.25
311330.5511	1959761.153	-64.77915833	17.71694167	2280	cpm	soil	0.25
311331.6466	1959764.832	-64.77914833	17.716975	2280	cpm	soil	0.25
311332.7283	1959767.036	-64.77913833	17.716995	2120	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311334.0146	1959772.189	-64.77912667	17.71704167	2230	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311335.098	1959774.577	-64.77911667	17.71706333	2330	cpm	soil	0.25
311336.3564	1959776.779	-64.779105	17.71708333	2390	cpm	soil	0.25
311337.6149	1959778.98	-64.77909333	17.71710333	2320	cpm	soil	0.25
311339.0501	1959781.181	-64.77908	17.71712333	2370	cpm	soil	0.25
311340.4853	1959783.381	-64.77906667	17.71714333	2450	cpm	soil	0.25
311341.742	1959785.398	-64.779055	17.71716167	2590	cpm	soil	0.25
311343.0004	1959787.6	-64.77904333	17.71718167	2620	cpm	soil	0.25
311344.0838	1959789.988	-64.77903333	17.71720333	2500	cpm	soil	0.25
311345.1655	1959792.191	-64.77902333	17.71722333	2400	cpm	soil	0.25
311346.2436	1959794.026	-64.77901333	17.71724	2650	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
311347.502	1959796.228	-64.77900167	17.71726	2590	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
311351.2826	1959803.387	-64.77896667	17.717325	2510	cpm	soil	0.25
311352.3659	1959805.775	-64.77895667	17.71734667	2410	cpm	soil	0.25
311353.9797	1959808.158	-64.77894167	17.71736833	2260	cpm	soil	0.25
311355.0578	1959809.992	-64.77893167	17.717385	2080	cpm	soil	0.25
311356.136	1959811.827	-64.77892167	17.71740167	2070	cpm	soil	0.25
311357.3874	1959813.291	-64.77891	17.717415	1890	cpm	soil	0.25
311358.2714	1959813.282	-64.77890167	17.717415	1860	cpm	soil	0.25
311359.3147	1959811.428	-64.77889167	17.71739833	1790	cpm	soil	0.25
311358.9506	1959810.324	-64.778895	17.71738833	1790	cpm	soil	0.25
311357.5032	1959806.833	-64.77890833	17.71735667	1790	cpm	soil	0.25
311356.4181	1959804.261	-64.77891833	17.71733333	1890	cpm	soil	0.25
311355.8773	1959803.159	-64.77892333	17.71732333	1920	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311353.714	1959798.752	-64.77894333	17.71728333	2230	cpm	soil	0.25
311351.913	1959795.264	-64.77896	17.71725167	2300	cpm	soil	0.25
311351.3722	1959794.162	-64.778965	17.71724167	2290	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311348.6576	1959787.546	-64.77899	17.71718167	2350	cpm	soil	0.25
0*	0*	0*	0*	2350	cpm	soil	0.25
311347.5638	1959784.052	-64.779	17.71715	2360	cpm	soil	0.25
311346.2931	1959780.559	-64.77901167	17.71711833	2300	cpm	soil	0.25
311345.3865	1959778.169	-64.77902	17.71709667	2480	cpm	soil	0.25
311344.8352	1959775.96	-64.779025	17.71707667	2530	cpm	soil	0.25
311344.2927	1959774.674	-64.77903	17.717065	2620	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
311342.8191	1959768.416	-64.77904333	17.71700833	2570	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311341.9038	1959765.104	-64.77905167	17.71697833	2460	cpm	soil	0.25
311340.6314	1959761.426	-64.77906333	17.716945	2500	cpm	soil	0.25
0*	0*	0*	0*	2500	cpm	soil	0.25
311338.6397	1959756.464	-64.77908167	17.7169	2420	cpm	soil	0.25
311338.0988	1959755.363	-64.77908667	17.71689	2460	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311336.8387	1959752.976	-64.77909833	17.71686833	2370	cpm	soil	0.25
311335.3912	1959749.485	-64.77911167	17.71683667	2320	cpm	soil	0.25
0*	0*	0*	0*	2360	cpm	soil	0.25
311333.0494	1959744.895	-64.77913333	17.716795	2290	cpm	soil	0.25
0*	0*	0*	0*	2350	cpm	soil	0.25
311331.0716	1959741.409	-64.77915167	17.71676333	2120	cpm	soil	0.25
311330.8914	1959741.042	-64.77915333	17.71676	2170	cpm	soil	0.25
311330.7059	1959740.121	-64.779155	17.71675167	2250	cpm	soil	0.25
311329.787	1959736.44	-64.77916333	17.71671833	2460	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311326.7241	1959730.381	-64.77919167	17.71666333	2710	cpm	soil	0.25
311326.1833	1959729.279	-64.77919667	17.71665333	2570	cpm	soil	0.25
311326.1659	1959727.435	-64.77919667	17.71663667	2110	cpm	soil	0.25
311328.1035	1959726.679	-64.77917833	17.71663	2060	cpm	soil	0.25
311331.2979	1959727.94	-64.77914833	17.71664167	2140	cpm	soil	0.25
311332.7349	1959730.324	-64.779135	17.71666333	1990	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
0*	0*	0*	0*	2080	cpm	soil	0.25
311336.1618	1959737.487	-64.77910333	17.71672833	2370	cpm	soil	0.25
311336.7027	1959738.588	-64.77909833	17.71673833	2350	cpm	soil	0.25
311337.7826	1959740.607	-64.77908833	17.71675667	2330	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311339.237	1959744.837	-64.779075	17.716795	2110	cpm	soil	0.25
311340.1558	1959748.518	-64.77906667	17.71682833	2340	cpm	soil	0.25
311340.6983	1959749.804	-64.77906167	17.71684	2320	cpm	soil	0.25
311341.7922	1959753.299	-64.77905167	17.71687167	2450	cpm	soil	0.25
311342.6988	1959755.688	-64.77904333	17.71689333	2530	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311343.7996	1959759.921	-64.77903333	17.71693167	2670	cpm	soil	0.25
311344.3474	1959761.76	-64.77902833	17.71694833	2470	cpm	soil	0.25
311345.0772	1959764.152	-64.77902167	17.71697	2410	cpm	soil	0.25
311345.6285	1959766.36	-64.77901667	17.71699	2380	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311347.0777	1959770.036	-64.77900333	17.71702333	2420	cpm	soil	0.25
311347.8092	1959772.612	-64.77899667	17.71704667	2460	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
311349.8114	1959778.681	-64.77897833	17.71710167	2640	cpm	soil	0.25
311350.5447	1959781.441	-64.77897167	17.71712667	2710	cpm	soil	0.25
311351.6299	1959784.013	-64.77896167	17.71715	2610	cpm	soil	0.25
311352.5364	1959786.403	-64.77895333	17.71717167	2470	cpm	soil	0.25
311353.268	1959788.979	-64.77894667	17.717195	2540	cpm	soil	0.25
311353.8088	1959790.08	-64.77894167	17.717205	2560	cpm	soil	0.25
311354.9062	1959793.944	-64.77893167	17.71724	2500	cpm	soil	0.25
0*	0*	0*	0*	2580	cpm	soil	0.25
311356.5426	1959798.725	-64.77891667	17.71728333	2220	cpm	soil	0.25
311357.0956	1959801.118	-64.77891167	17.717305	2230	cpm	soil	0.25
311357.4596	1959802.221	-64.77890833	17.717315	2210	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311358.55	1959805.347	-64.77889833	17.71734333	2080	cpm	soil	0.25
311358.914	1959806.451	-64.778895	17.71735333	2030	cpm	soil	0.25
311359.8258	1959809.394	-64.77888667	17.71738	2000	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311361.7862	1959811.035	-64.77886833	17.717395	1950	cpm	soil	0.25
311362.3026	1959809.555	-64.77886333	17.71738167	2040	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311361.7287	1959804.948	-64.77886833	17.71734	2000	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311360.4441	1959799.98	-64.77888	17.717295	2000	cpm	soil	0.25
311359.9033	1959798.878	-64.778885	17.717285	2140	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311357.5388	1959791.89	-64.77890667	17.71722167	1990	cpm	soil	0.25
311356.62	1959788.209	-64.778915	17.71718833	1900	cpm	soil	0.25
311355.8867	1959785.449	-64.77892167	17.71716333	1930	cpm	soil	0.25
311354.8016	1959782.876	-64.77893167	17.71714	1950	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
311353.6938	1959777.906	-64.77894167	17.717095	2030	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
311352.4092	1959772.937	-64.77895333	17.71705	2240	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
311351.3153	1959769.443	-64.77896333	17.71701833	2290	cpm	soil	0.25
311350.3983	1959765.946	-64.77897167	17.71698667	2380	cpm	soil	0.25
311349.6685	1959763.555	-64.77897833	17.716965	2260	cpm	soil	0.25
311349.3044	1959762.451	-64.77898167	17.716955	2230	cpm	soil	0.25
311348.5746	1959760.06	-64.77898833	17.71693333	2250	cpm	soil	0.25
311347.6558	1959756.379	-64.77899667	17.7169	2170	cpm	soil	0.25
311347.101	1959753.802	-64.77900167	17.71687667	2170	cpm	soil	0.25
311346.5585	1959752.516	-64.77900667	17.716865	2170	cpm	soil	0.25
311346.1944	1959751.412	-64.77901	17.716855	2190	cpm	soil	0.25
311344.7453	1959747.736	-64.77902333	17.71682167	2220	cpm	soil	0.25
311344.0155	1959745.345	-64.77903	17.7168	2180	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311342.7378	1959741.114	-64.77904167	17.71676167	2250	cpm	soil	0.25
311341.8312	1959738.724	-64.77905	17.71674	2090	cpm	soil	0.25
311341.2922	1959737.807	-64.779055	17.71673167	2180	cpm	soil	0.25
311339.8447	1959734.316	-64.77906833	17.7167	2240	cpm	soil	0.25
311339.479	1959733.028	-64.77907167	17.71668833	2330	cpm	soil	0.25
311337.6797	1959729.724	-64.77908833	17.71665833	2390	cpm	soil	0.25
311337.1371	1959728.438	-64.77909333	17.71664667	2230	cpm	soil	0.25
311337.4628	1959725.483	-64.77909	17.71662	2040	cpm	soil	0.25
311338.3398	1959724.737	-64.77908167	17.71661333	2150	cpm	soil	0.25
311341.8738	1959724.519	-64.77904833	17.71661167	2090	cpm	soil	0.25
311343.1287	1959726.352	-64.77903667	17.71662833	2040	cpm	soil	0.25
311343.6713	1959727.638	-64.77903167	17.71664	1950	cpm	soil	0.25
311344.7634	1959730.949	-64.77902167	17.71667	2010	cpm	soil	0.25
311345.1361	1959732.974	-64.77901833	17.71668833	1970	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311345.866	1959735.366	-64.77901167	17.71671	2170	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
311347.6757	1959739.776	-64.778995	17.71675	1950	cpm	soil	0.25
311348.402	1959741.798	-64.77898833	17.71676833	1940	cpm	soil	0.25
311348.955	1959744.191	-64.77898333	17.71679	2110	cpm	soil	0.25
311349.5098	1959746.769	-64.77897833	17.71681333	2150	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
311350.2588	1959751.189	-64.77897167	17.71685333	2200	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
311351.3596	1959755.422	-64.77896167	17.71689167	2160	cpm	soil	0.25
311352.6302	1959758.915	-64.77895	17.71692333	2080	cpm	soil	0.25
311352.996	1959760.203	-64.77894667	17.716935	2000	cpm	soil	0.25
311353.9009	1959762.408	-64.77893833	17.716955	2130	cpm	soil	0.25
311355.1715	1959765.901	-64.77892667	17.71698667	2190	cpm	soil	0.25
311355.5478	1959768.296	-64.77892333	17.71700833	2190	cpm	soil	0.25
311355.735	1959769.401	-64.77892167	17.71701833	2200	cpm	soil	0.25
311356.1112	1959771.795	-64.77891833	17.71704	2310	cpm	soil	0.25
311356.4945	1959774.928	-64.778915	17.71706833	2280	cpm	soil	0.25
311356.673	1959775.111	-64.77891333	17.71707	2240	cpm	soil	0.25
311356.673	1959775.111	-64.77891333	17.71707	2050	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
311357.9488	1959779.157	-64.77890167	17.71710667	1920	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
311359.2299	1959783.757	-64.77889	17.71714833	1650	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
311361.5665	1959787.793	-64.77886833	17.717185	1580	cpm	soil	0.25
311362.9738	1959787.042	-64.778855	17.71717833	1570	cpm	soil	0.25
311362.426	1959785.203	-64.77886	17.71716167	1600	cpm	soil	0.25
311361.698	1959782.996	-64.77886667	17.71714167	1560	cpm	soil	0.25
0*	0*	0*	0*	1540	cpm	soil	0.25
311359.708	1959778.218	-64.778885	17.71709833	1500	cpm	soil	0.25
311358.9817	1959776.196	-64.77889167	17.71708	1430	cpm	soil	0.25
0*	0*	0*	0*	1460	cpm	soil	0.25
311357.6971	1959771.227	-64.77890333	17.717035	1490	cpm	soil	0.25
311357.4994	1959769.015	-64.778905	17.717015	1590	cpm	soil	0.25
311356.7696	1959766.624	-64.77891167	17.71699333	1560	cpm	soil	0.25
311355.863	1959764.234	-64.77892	17.71697167	1670	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311354.3789	1959756.869	-64.77893333	17.716905	1790	cpm	soil	0.25
311353.8294	1959754.845	-64.77893833	17.71688667	1730	cpm	soil	0.25
311353.6422	1959753.74	-64.77894	17.71687667	1810	cpm	soil	0.25
311352.375	1959750.616	-64.77895167	17.71684833	1780	cpm	soil	0.25
311352.0092	1959749.328	-64.778955	17.71683667	1910	cpm	soil	0.25
311351.0904	1959745.647	-64.77896333	17.71680333	2000	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311349.8093	1959741.047	-64.778975	17.71676167	2000	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311349.4348	1959738.837	-64.77897833	17.71674167	1840	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
311347.8002	1959734.241	-64.77899333	17.7167	1790	cpm	soil	0.25
311346.8936	1959731.851	-64.77900167	17.71667833	1730	cpm	soil	0.25
311345.987	1959729.461	-64.77901	17.71665667	1670	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
311344.5343	1959725.416	-64.77902333	17.71662	1770	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
311345.217	1959722.827	-64.77901667	17.71659667	1830	cpm	soil	0.25
311348.4044	1959723.351	-64.77898667	17.71660167	1770	cpm	soil	0.25
311349.4704	1959723.894	-64.77897667	17.71660667	1700	cpm	soil	0.25
311351.793	1959726.455	-64.778955	17.71663	1580	cpm	soil	0.25
311352.5072	1959727.186	-64.77894833	17.71663667	1580	cpm	soil	0.25
311353.5871	1959729.205	-64.77893833	17.716655	1630	cpm	soil	0.25
311353.9494	1959730.124	-64.778935	17.71666333	1670	cpm	soil	0.25
311355.0327	1959732.512	-64.778925	17.716685	1650	cpm	soil	0.25
311355.9359	1959734.533	-64.77891667	17.71670333	1610	cpm	soil	0.25
311356.2999	1959735.636	-64.77891333	17.71671333	1620	cpm	soil	0.25
311357.567	1959738.76	-64.77890167	17.71674167	1590	cpm	soil	0.25
311358.2951	1959740.967	-64.778895	17.71676167	1560	cpm	soil	0.25
311358.4824	1959742.072	-64.77889333	17.71677167	1460	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
311358.7114	1959747.604	-64.77889167	17.71682167	1490	cpm	soil	0.25
311359.0859	1959749.814	-64.77888833	17.71684167	1460	cpm	soil	0.25
311359.2836	1959752.026	-64.77888667	17.71686167	1380	cpm	soil	0.25
311359.6599	1959754.421	-64.77888333	17.71688333	1310	cpm	soil	0.25
311360.2094	1959756.445	-64.77887833	17.71690167	1360	cpm	soil	0.25
311360.4054	1959758.472	-64.77887667	17.71692	1370	cpm	soil	0.25
311360.6048	1959760.869	-64.778875	17.71694167	1360	cpm	soil	0.25
0*	0*	0*	0*	1360	cpm	soil	0.25
311361.002	1959765.477	-64.77887167	17.71698333	1330	cpm	soil	0.25
311361.1997	1959767.689	-64.77887	17.71700333	1310	cpm	soil	0.25
311361.3974	1959769.901	-64.77886833	17.71702333	1350	cpm	soil	0.25
0*	0*	0*	0*	1380	cpm	soil	0.25
0*	0*	0*	0*	1390	cpm	soil	0.25
311360.0389	1959775.817	-64.77888167	17.71707667	1350	cpm	soil	0.25
0*	0*	0*	0*	1290	cpm	soil	0.25
311356.8724	1959777.507	-64.77891167	17.71709167	1370	cpm	soil	0.25
311352.8151	1959778.468	-64.77895	17.7171	1600	cpm	soil	0.25
311349.99	1959778.863	-64.77897667	17.71710333	1810	cpm	soil	0.25
311348.7542	1959779.06	-64.77898833	17.717105	2020	cpm	soil	0.25
311345.0417	1959779.095	-64.77902333	17.717105	2090	cpm	soil	0.25
311342.7417	1959778.932	-64.779045	17.71710333	2560	cpm	soil	0.25
311340.6133	1959778.214	-64.779065	17.71709667	2660	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
311334.9317	1959775.685	-64.77911833	17.71707333	2320	cpm	soil	0.25
311330.1393	1959773.701	-64.77916333	17.717055	2200	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311326.7664	1959772.257	-64.779195	17.71704167	2120	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311321.7867	1959769.168	-64.77924167	17.71701333	2360	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
311318.5819	1959766.8	-64.77927167	17.71699167	2280	cpm	soil	0.25
311315.7254	1959763.876	-64.77929833	17.716965	2290	cpm	soil	0.25
311313.9401	1959762.048	-64.779315	17.71694833	2200	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
311309.4768	1959757.478	-64.77935667	17.71690667	1990	cpm	soil	0.25
311306.6238	1959754.922	-64.77938333	17.71688333	1960	cpm	soil	0.25
311305.7311	1959754.008	-64.77939167	17.716875	2150	cpm	soil	0.25
311302.8764	1959751.268	-64.77941833	17.71685	2190	cpm	soil	0.25
311301.9855	1959750.539	-64.77942667	17.71684333	2100	cpm	soil	0.25
311299.129	1959747.614	-64.77945333	17.71681667	2220	cpm	soil	0.25
311296.815	1959745.976	-64.779475	17.71680167	2140	cpm	soil	0.25
311295.3833	1959744.144	-64.77948833	17.716785	2260	cpm	soil	0.25
311295.2013	1959743.593	-64.77949	17.71678	2280	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
311294.1283	1959742.311	-64.7795	17.71676833	2410	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
311289.5022	1959739.219	-64.77954333	17.71674	2280	cpm	soil	0.25
311288.6166	1959739.043	-64.77955167	17.71673833	2330	cpm	soil	0.25
311288.4398	1959739.045	-64.77955333	17.71673833	2230	cpm	soil	0.25
311288.4398	1959739.045	-64.77955333	17.71673833	2050	cpm	soil	0.25
311288.4398	1959739.045	-64.77955333	17.71673833	1810	cpm	soil	0.25
311288.4398	1959739.045	-64.77955333	17.71673833	1900	cpm	soil	0.25
311287.7361	1959739.42	-64.77956	17.71674167	2040	cpm	soil	0.25
311285.8194	1959742.39	-64.77957833	17.71676833	2080	cpm	soil	0.25
311285.4762	1959743.5	-64.77958167	17.71677833	2100	cpm	soil	0.25
311284.6063	1959744.984	-64.77959	17.71679167	2170	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311282.4656	1959742.975	-64.77961	17.71677333	2220	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
311283.1222	1959737.619	-64.77960333	17.716725	2360	cpm	soil	0.25
311283.8084	1959735.399	-64.77959667	17.716705	2520	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
311285.1913	1959732.065	-64.77958333	17.716675	2390	cpm	soil	0.25
311285.8636	1959728.369	-64.77957667	17.71664167	2290	cpm	soil	0.25
311286.205	1959727.075	-64.77957333	17.71663	2390	cpm	soil	0.25
311287.7542	1959722.633	-64.77955833	17.71659	2390	cpm	soil	0.25
311287.9275	1959722.262	-64.77955667	17.71658667	2410	cpm	soil	0.25
311288.6155	1959720.226	-64.77955	17.71656833	2300	cpm	soil	0.25
311288.9586	1959719.116	-64.77954667	17.71655833	2170	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311290.3327	1959714.86	-64.77953333	17.71652	2230	cpm	soil	0.25
311290.6776	1959713.935	-64.77953	17.71651167	2270	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311290.8526	1959713.748	-64.77952833	17.71651	2310	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
311291.5284	1959710.421	-64.77952167	17.71648	2380	cpm	soil	0.25
311292.2129	1959708.017	-64.779515	17.71645833	2460	cpm	soil	0.25
0*	0*	0*	0*	2530	cpm	soil	0.25
311293.7604	1959703.39	-64.7795	17.71641667	2510	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311295.4829	1959698.577	-64.77948333	17.71637333	2360	cpm	soil	0.25
311295.8243	1959697.283	-64.77948	17.71636167	2380	cpm	soil	0.25
311296.8501	1959693.584	-64.77947	17.71632833	2570	cpm	soil	0.25
0*	0*	0*	0*	2350	cpm	soil	0.25
311298.044	1959688.96	-64.77945833	17.71628667	2280	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311296.9397	1959684.359	-64.77946833	17.716245	2310	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
311293.0486	1959684.211	-64.779505	17.71624333	2140	cpm	soil	0.25
311291.6553	1959686.438	-64.77951833	17.71626333	2140	cpm	soil	0.25
311291.1354	1959687.55	-64.77952333	17.71627333	2200	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
311289.4355	1959694.761	-64.77954	17.71633833	2060	cpm	soil	0.25
311288.9226	1959696.61	-64.779545	17.716355	2130	cpm	soil	0.25
0*	0*	0*	0*	2030	cpm	soil	0.25
311288.7493	1959696.981	-64.77954667	17.71635833	1970	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311287.3646	1959700.13	-64.77956	17.71638667	2000	cpm	soil	0.25
311286.6802	1959702.535	-64.77956667	17.71640833	1880	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311284.4447	1959709.197	-64.77958833	17.71646833	1950	cpm	soil	0.25
311283.7585	1959711.417	-64.779595	17.71648833	1970	cpm	soil	0.25
311283.4258	1959713.634	-64.77959833	17.71650833	1920	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
311280.8281	1959719.378	-64.77962333	17.71656	2250	cpm	soil	0.25
311280.3204	1959721.781	-64.77962833	17.71658167	2220	cpm	soil	0.25
311279.4556	1959723.818	-64.77963667	17.7166	2100	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
311276.3554	1959732.518	-64.77966667	17.71667833	2030	cpm	soil	0.25
311275.846	1959734.736	-64.77967167	17.71669833	2100	cpm	soil	0.25
311275.3261	1959735.848	-64.77967667	17.71670833	2250	cpm	soil	0.25
311274.2985	1959739.363	-64.77968667	17.71674	2180	cpm	soil	0.25
311273.6141	1959741.768	-64.77969333	17.71676167	2120	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
311272.5847	1959745.098	-64.77970333	17.71679167	1990	cpm	soil	0.25
311271.3786	1959748.43	-64.779715	17.71682167	1850	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311271.0355	1959749.54	-64.77971833	17.71683167	1900	cpm	soil	0.25
311269.6491	1959752.505	-64.77973167	17.71685833	1950	cpm	soil	0.25
311267.8935	1959753.813	-64.77974833	17.71687	2180	cpm	soil	0.25
311265.9662	1959755.676	-64.77976667	17.71688667	2310	cpm	soil	0.25
311265.2678	1959756.605	-64.77977333	17.716895	2350	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
0*	0*	0*	0*	2510	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
311260.783	1959768.454	-64.77981667	17.71700167	2170	cpm	soil	0.25
311260.4643	1959772.146	-64.77982	17.717035	2010	cpm	soil	0.25
311260.4765	1959773.437	-64.77982	17.71704667	2080	cpm	soil	0.25
311259.9828	1959777.316	-64.779825	17.71708167	2230	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311258.255	1959781.575	-64.77984167	17.71712	2300	cpm	soil	0.25
311257.3746	1959781.953	-64.77985	17.71712333	1940	cpm	soil	0.25
311255.7661	1959780.123	-64.779865	17.71710667	1790	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
311255.9045	1959776.063	-64.77986333	17.71707	1590	cpm	soil	0.25
311256.0481	1959772.557	-64.77986167	17.71703833	1440	cpm	soil	0.25
0*	0*	0*	0*	1300	cpm	soil	0.25
311256.5506	1959769.601	-64.77985667	17.71701167	1280	cpm	soil	0.25
311256.8954	1959768.675	-64.77985333	17.71700333	1300	cpm	soil	0.25
311256.8954	1959768.675	-64.77985333	17.71700333	1270	cpm	soil	0.25
311256.8954	1959768.675	-64.77985333	17.71700333	1290	cpm	soil	0.25
311257.0617	1959767.566	-64.77985167	17.71699333	1260	cpm	soil	0.25
311257.5677	1959764.979	-64.77984667	17.71697	1310	cpm	soil	0.25
311258.2522	1959762.574	-64.77984	17.71694833	1260	cpm	soil	0.25
311259.1117	1959759.983	-64.77983167	17.716925	1270	cpm	soil	0.25
311259.6176	1959757.396	-64.77982667	17.71690167	1300	cpm	soil	0.25
311259.9468	1959754.81	-64.77982333	17.71687833	1280	cpm	soil	0.25
311260.6312	1959752.406	-64.77981667	17.71685667	1280	cpm	soil	0.25
0*	0*	0*	0*	1260	cpm	soil	0.25
311261.3174	1959750.185	-64.77981	17.71683667	1290	cpm	soil	0.25
311262.5271	1959747.222	-64.77979833	17.71681	1320	cpm	soil	0.25
311263.7332	1959743.89	-64.77978667	17.71678	1420	cpm	soil	0.25
311264.2409	1959741.487	-64.77978167	17.71675833	1410	cpm	soil	0.25
0*	0*	0*	0*	1470	cpm	soil	0.25
311266.3082	1959735.749	-64.77976167	17.71670667	1530	cpm	soil	0.25
0*	0*	0*	0*	1570	cpm	soil	0.25
311267.8714	1959732.782	-64.77974667	17.71668	1510	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
311269.0618	1959727.79	-64.779735	17.716635	1670	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
311272.3144	1959716.506	-64.77970333	17.71653333	1720	cpm	soil	0.25
311273.0041	1959714.655	-64.77969667	17.71651667	1880	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311273.5153	1959712.621	-64.77969167	17.71649833	1890	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
311274.8895	1959708.365	-64.77967833	17.71646	1850	cpm	soil	0.25
311275.5774	1959706.329	-64.77967167	17.71644167	1800	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
311276.7748	1959702.075	-64.77966	17.71640333	1880	cpm	soil	0.25
311277.2947	1959700.963	-64.779655	17.71639333	1870	cpm	soil	0.25
311278.3223	1959697.448	-64.779645	17.71636167	1970	cpm	soil	0.25
311278.8317	1959695.23	-64.77964	17.71634167	2030	cpm	soil	0.25
311279.5145	1959692.641	-64.77963333	17.71631833	2160	cpm	soil	0.25
311280.0344	1959691.529	-64.77962833	17.71630833	2260	cpm	soil	0.25
311281.0654	1959688.383	-64.77961833	17.71628	2300	cpm	soil	0.25
311281.5749	1959686.164	-64.77961333	17.71626	2300	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
311281.533	1959681.737	-64.77961333	17.71622	2300	cpm	soil	0.25
311279.5814	1959681.018	-64.77963167	17.71621333	2130	cpm	soil	0.25
311277.6489	1959682.328	-64.77965	17.716225	2230	cpm	soil	0.25
311276.091	1959685.847	-64.779665	17.71625667	2310	cpm	soil	0.25
311275.228	1959688.069	-64.77967333	17.71627667	2200	cpm	soil	0.25
311274.7098	1959689.366	-64.77967833	17.71628833	2270	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2250	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2180	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2050	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2190	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2050	cpm	soil	0.25
311272.9786	1959693.256	-64.779695	17.71632333	2100	cpm	soil	0.25
311272.4709	1959695.659	-64.7797	17.716345	2050	cpm	soil	0.25
311271.4311	1959697.882	-64.77971	17.716365	2190	cpm	soil	0.25
311270.3878	1959699.737	-64.77972	17.71638167	2160	cpm	soil	0.25
311269.8662	1959700.664	-64.779725	17.71639	2110	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
311267.6168	1959705.851	-64.77974667	17.71643667	2120	cpm	soil	0.25
311267.1056	1959707.885	-64.77975167	17.716455	2090	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
0*	0*	0*	0*	1880	cpm	soil	0.25
311265.0487	1959714.73	-64.77977167	17.71651667	1980	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311263.8478	1959718.616	-64.77978333	17.71655167	2380	cpm	soil	0.25
311263.1616	1959720.836	-64.77979	17.71657167	2330	cpm	soil	0.25
311262.4736	1959722.872	-64.77979667	17.71659	2130	cpm	soil	0.25
311261.952	1959723.799	-64.77980167	17.71659833	2060	cpm	soil	0.25
311261.2605	1959725.466	-64.77980833	17.71661333	2210	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
0*	0*	0*	0*	2450	cpm	soil	0.25
311258.5052	1959733.24	-64.779835	17.71668333	2340	cpm	soil	0.25
311257.6422	1959735.462	-64.77984333	17.71670333	2220	cpm	soil	0.25
311256.7792	1959737.684	-64.77985167	17.71672333	2180	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
311255.3963	1959741.017	-64.779865	17.71675333	2000	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
311253.1504	1959746.573	-64.77988667	17.71680333	2140	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311251.2423	1959750.465	-64.779905	17.71683833	1810	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
311249.6861	1959754.169	-64.77992	17.71687167	1670	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
311248.473	1959756.763	-64.77993167	17.716895	1450	cpm	soil	0.25
311247.7851	1959758.799	-64.77993833	17.71691333	1420	cpm	soil	0.25
0*	0*	0*	0*	1460	cpm	soil	0.25
311246.936	1959762.497	-64.77994667	17.71694667	1430	cpm	soil	0.25
311246.4284	1959764.9	-64.77995167	17.71696833	1250	cpm	soil	0.25
311245.7474	1959767.673	-64.77995833	17.71699333	1200	cpm	soil	0.25
311245.7509	1959768.042	-64.77995833	17.71699667	1150	cpm	soil	0.25
311245.4043	1959768.784	-64.77996167	17.71700333	1170	cpm	soil	0.25
311245.2362	1959769.708	-64.77996333	17.71701167	1140	cpm	soil	0.25
311244.2034	1959772.669	-64.77997333	17.71703833	1150	cpm	soil	0.25
0*	0*	0*	0*	1170	cpm	soil	0.25
311243.5207	1959775.258	-64.77998	17.71706167	1210	cpm	soil	0.25
311242.6646	1959778.218	-64.77998833	17.71708833	1220	cpm	soil	0.25
311242.3198	1959779.143	-64.77999167	17.71709667	1230	cpm	soil	0.25
311241.4533	1959780.996	-64.78	17.71711333	1220	cpm	soil	0.25
311240.9369	1959782.477	-64.780005	17.71712667	1200	cpm	soil	0.25
311240.4187	1959783.773	-64.78001	17.71713833	1180	cpm	soil	0.25
0*	0*	0*	0*	1160	cpm	soil	0.25
0*	0*	0*	0*	1150	cpm	soil	0.25
311238.88	1959789.322	-64.780025	17.71718833	1140	cpm	soil	0.25
0*	0*	0*	0*	1120	cpm	soil	0.25
0*	0*	0*	0*	1090	cpm	soil	0.25
311237.1505	1959793.397	-64.78004167	17.717225	1090	cpm	soil	0.25
311236.1072	1959795.252	-64.78005167	17.71724167	1110	cpm	soil	0.25
0*	0*	0*	0*	1130	cpm	soil	0.25
311234.0085	1959797.67	-64.78007167	17.71726333	1070	cpm	soil	0.25
311232.5855	1959796.761	-64.780085	17.717255	1100	cpm	soil	0.25
311231.5038	1959794.557	-64.780095	17.717235	1050	cpm	soil	0.25
311232.0202	1959793.077	-64.78009	17.71722167	1050	cpm	soil	0.25
311232.5401	1959791.965	-64.780085	17.71721167	1070	cpm	soil	0.25
311232.5366	1959791.596	-64.780085	17.71720833	1110	cpm	soil	0.25
311233.5816	1959789.926	-64.780075	17.71719333	1110	cpm	soil	0.25
311234.2678	1959787.706	-64.78006833	17.71717333	1140	cpm	soil	0.25
311234.4342	1959786.597	-64.78006667	17.71716333	1140	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311235.4617	1959783.082	-64.78005667	17.71713167	1130	cpm	soil	0.25
311235.6281	1959781.974	-64.780055	17.71712167	1220	cpm	soil	0.25
311236.6626	1959779.197	-64.780045	17.71709667	1240	cpm	soil	0.25
311237.8652	1959775.496	-64.78003333	17.71706333	1220	cpm	soil	0.25
311238.1996	1959773.464	-64.78003	17.717045	1260	cpm	soil	0.25
311239.0626	1959771.242	-64.78002167	17.717025	1260	cpm	soil	0.25
311239.5703	1959768.839	-64.78001667	17.71700333	1290	cpm	soil	0.25
311240.435	1959766.801	-64.78000833	17.716985	1380	cpm	soil	0.25
311241.3015	1959764.948	-64.78	17.71696833	1330	cpm	soil	0.25
311241.6377	1959763.1	-64.77999667	17.71695167	1270	cpm	soil	0.25
311241.972	1959761.068	-64.77999333	17.71693333	1250	cpm	soil	0.25
311242.835	1959758.846	-64.779985	17.71691333	1250	cpm	soil	0.25
311243.8748	1959756.622	-64.779975	17.71689333	1220	cpm	soil	0.25
311244.386	1959754.588	-64.77997	17.716875	1340	cpm	soil	0.25
311244.8972	1959752.554	-64.779965	17.71685667	1320	cpm	soil	0.25
311245.4084	1959750.52	-64.77996	17.71683833	1260	cpm	soil	0.25
311246.2696	1959748.114	-64.77995167	17.71681667	1270	cpm	soil	0.25
0*	0*	0*	0*	1350	cpm	soil	0.25
311247.6438	1959743.858	-64.77993833	17.71677833	1430	cpm	soil	0.25
311248.5085	1959741.82	-64.77993	17.71676	1590	cpm	soil	0.25
311248.8394	1959739.419	-64.77992667	17.71673833	1530	cpm	soil	0.25
311249.1738	1959737.387	-64.77992333	17.71672	1650	cpm	soil	0.25
311249.8635	1959735.535	-64.77991667	17.71670333	1800	cpm	soil	0.25
311250.3747	1959733.501	-64.77991167	17.716685	1990	cpm	soil	0.25
311250.7073	1959731.284	-64.77990833	17.716665	2080	cpm	soil	0.25
311251.215	1959728.881	-64.77990333	17.71664333	2260	cpm	soil	0.25
311251.9012	1959726.661	-64.77989667	17.71662333	2210	cpm	soil	0.25
311252.4107	1959724.443	-64.77989167	17.71660333	2350	cpm	soil	0.25
311253.1021	1959722.776	-64.779885	17.71658833	2240	cpm	soil	0.25
311253.0934	1959721.854	-64.779885	17.71658	2270	cpm	soil	0.25
311253.5941	1959718.713	-64.77988	17.71655167	2200	cpm	soil	0.25
311254.0913	1959715.203	-64.779875	17.71652	2400	cpm	soil	0.25
311254.2559	1959713.91	-64.77987333	17.71650833	2180	cpm	soil	0.25
311254.9404	1959711.505	-64.77986667	17.71648667	2240	cpm	soil	0.25
311255.6231	1959708.916	-64.77986	17.71646333	2290	cpm	soil	0.25
311255.6179	1959708.363	-64.77986	17.71645833	2270	cpm	soil	0.25
311256.1325	1959706.698	-64.779855	17.71644333	2190	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
311257.3387	1959703.366	-64.77984333	17.71641333	2180	cpm	soil	0.25
311258.3697	1959700.22	-64.77983333	17.716385	2230	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311260.276	1959696.143	-64.779815	17.71634833	2140	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311261.4821	1959692.811	-64.77980333	17.71631833	2060	cpm	soil	0.25
311261.8148	1959690.594	-64.7798	17.71629833	2010	cpm	soil	0.25
311262.501	1959688.374	-64.77979333	17.71627833	1960	cpm	soil	0.25
311263.7071	1959685.042	-64.77978167	17.71624833	1990	cpm	soil	0.25

Table 34: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311264.2165	1959682.824	-64.77977667	17.71622833	1830	cpm	soil	0.25
311264.7277	1959680.789	-64.77977167	17.71621	1790	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
311266.4642	1959677.452	-64.779755	17.71618	1630	cpm	soil	0.25
311266.4642	1959677.452	-64.779755	17.71618	1720	cpm	soil	0.25
311266.4642	1959677.452	-64.779755	17.71618	1700	cpm	soil	0.25
				Minimum =	**1050**		
				Maximum =	**2770**		
				Median =	**2130**		
				Arithmetic mean =	**2045**		
				One Sigma =	**374**		
				Two Sigma =	**747**		

Average Background =	**5193.75**	**cpm**		
Background +/- One Sigma	**4597**	**to**	**5790**	**cpm**
Background +/- Two Sigma	**4000**	**to**	**6387**	**cpm**

0* - GPS data not available

Table 35: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-01-C	45	42	Red Mud	17.71075667	-64.780055
RMAEXP-02-C	47	45	Red Mud	17.710935	-64.78017167
RMAEXP-03-C	38	38	Red Mud	17.711085	-64.78023
RMAEXP-04-C	37	35	Red Mud	17.711155	-64.78033333
RMAEXP-05-C	37	35	Red Mud	17.71129	-64.78027667
RMAEXP-06-C	44	43	Red Mud	17.71122833	-64.78016
RMAEXP-07-C	48	46	Red Mud	17.71115333	-64.78004333
RMAEXP-08-C	48	46	Red Mud	17.71123333	-64.77993833
RMAEXP-09-C	48	46	Red Mud	17.71130333	-64.78005833
RMAEXP-10-C	45	42	Red Mud	17.71137167	-64.780175
RMAEXP-11-C	40	39	Red Mud	17.71161167	-64.78009167
RMAEXP-12-C	47	44	Red Mud	17.711505	-64.77983667
RMAEXP-13-C	47	45	Red Mud	17.71169	-64.77964833
RMAEXP-14-C	44	41	Red Mud	17.7119	-64.77948667
RMAEXP-15-C	49	46	Red Mud	17.71105667	-64.77978
RMAEXP-16-C	48	47	Red Mud	17.710825	-64.77986167
RMAEXP-17-C	57	52	Red Mud	17.71058667	-64.77971333
RMAEXP-18-C	45	41	Red Mud	17.71036667	-64.779535
RMAEXP-19-C	42	40	Red Mud	17.71016333	-64.779765
RMAEXP-20-C	40	38	Red Mud	17.70991667	-64.77961
RMAEXP-21-C	44	43	Red Mud	17.71005167	-64.77937
RMAEXP-22-C	43	41	Red Mud	17.70983167	-64.77921
RMAEXP-23-C	38	37	Red Mud	17.70968	-64.77945167
RMAEXP-24-C	41	39	Red Mud	17.70966333	-64.77906333
RMAEXP-25-C	44	43	Red Mud	17.70941833	-64.77890833
RMAEXP-26-C	39	38	Red Mud	17.70923333	-64.77913667
RMAEXP-27-C	47	47	Red Mud	17.70899	-64.778965
RMAEXP-28-C	51	49	Red Mud	17.70921	-64.77875
RMAEXP-29-C	48	48	Red Mud	17.70897167	-64.77857667
RMAEXP-30-C	43	40	Red Mud	17.70881667	-64.77881667

Table 35: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-31-C	45	43	Red Mud	17.709105	-64.778275
RMAEXP-32-C	46	44	Red Mud	17.70921	-64.778035
RMAEXP-33-C	46	44	Red Mud	17.709345	-64.77777167
RMAEXP-34-C	47	46	Red Mud	17.709505	-64.77753
RMAEXP-35-C	46	44	Red Mud	17.709665	-64.77726833
RMAEXP-36-C	32	32	Red Mud	17.70982333	-64.777085
RMAEXP-37-C	49	47	Red Mud	17.70935833	-64.77838833
RMAEXP-38-C	46	44	Red Mud	17.70952667	-64.77816
RMAEXP-39-C	50	49	Red Mud	17.70966	-64.77790333
RMAEXP-40-C	48	47	Red Mud	17.70978167	-64.77764333
RMAEXP-41-C	46	45	Red Mud	17.70992333	-64.777365
RMAEXP-42-C	46	44	Red Mud	17.710035	-64.77709833
RMAEXP-43-C	45	43	Red Mud	17.71017333	-64.77682167
RMAEXP-44-C	43	41	Red Mud	17.710345	-64.776955
RMAEXP-45-C	44	42	Red Mud	17.71019667	-64.77719167
RMAEXP-46-C	43	43	Red Mud	17.71007167	-64.77745667
RMAEXP-47-C	50	49	Red Mud	17.70995833	-64.777725
RMAEXP-48-C	60	58	Red Mud	17.70987	-64.77800833
RMAEXP-49-C	49	49	Red Mud	17.70974	-64.77824833
RMAEXP-50-C	50	48	Red Mud	17.70954833	-64.77856667
RMAEXP-51-C	51	49	Red Mud	17.70975333	-64.778765
RMAEXP-52-C	49	47	Red Mud	17.70996667	-64.77896667
RMAEXP-53-C	50	48	Red Mud	17.71017333	-64.779165
RMAEXP-54-C	50	48	Red Mud	17.71042667	-64.77931167
RMAEXP-55-C	48	46	Red Mud	17.71064833	-64.779535
RMAEXP-56-C	50	50	Red Mud	17.71093167	-64.77966667
RMAEXP-57-C	54	50	Red Mud	17.71113167	-64.77943833
RMAEXP-58-C	52	49	Red Mud	17.71091667	-64.77924
RMAEXP-59-C	49	47	Red Mud	17.71119333	-64.77923
RMAEXP-60-C	45	43	Red Mud	17.71146	-64.77912333

Table 35: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-61-C	46	45	Red Mud	17.711655	-64.779185
RMAEXP-62-C	45	43	Red Mud	17.71185	-64.77896667
RMAEXP-63-C	45	43	Red Mud	17.71192333	-64.778675
RMAEXP-64-C	46	44	Red Mud	17.71199833	-64.77838833
RMAEXP-65-C	48	47	Red Mud	17.71174	-64.77824667
RMAEXP-66-C	49	47	Red Mud	17.71164833	-64.77855333
RMAEXP-67-C	45	43	Red Mud	17.71152667	-64.77882667
RMAEXP-68-C	46	44	Red Mud	17.71133	-64.77905833
RMAEXP-69-C	46	44	Red Mud	17.71107833	-64.77894667
RMAEXP-70-C	48	46	Red Mud	17.710985	-64.7791
RMAEXP-71-C	47	45	Red Mud	17.710705	-64.77902333
RMAEXP-72-C	45	45	Red Mud	17.71076667	-64.77874667
RMAEXP-73-C	51	51	Red Mud	17.7105	-64.77869667
RMAEXP-74-C	49	48	Red Mud	17.71060833	-64.77842167
RMAEXP-75-C	47	45	Red Mud	17.71086333	-64.77854667
RMAEXP-76-C	43	41	Red Mud	17.71112667	-64.77865833
RMAEXP-77-C	45	44	Red Mud	17.71139167	-64.77877333
RMAEXP-78-C	47	45	Red Mud	17.71151333	-64.778485
RMAEXP-79-C	47	46	Red Mud	17.71124167	-64.77842
RMAEXP-80-C	49	47	Red Mud	17.71098167	-64.77835167
RMAEXP-81-C	49	48	Red Mud	17.71070333	-64.778285
RMAEXP-82-C	45	43	Red Mud	17.71078833	-64.77796833
RMAEXP-83-C	46	44	Red Mud	17.71052833	-64.77783333
RMAEXP-84-C	50	49	Red Mud	17.71046	-64.777565
RMAEXP-85-C	47	45	Red Mud	17.71060667	-64.77732667
RMAEXP-86-C	39	39	Red Mud	17.710845	-64.77724167
RMAEXP-87-C	58	55	Red Mud	17.71109833	-64.77739
RMAEXP-88-C	61	58	Red Mud	17.71136333	-64.77747667
RMAEXP-89-C	45	43	Red Mud	17.71155	-64.77768333
RMAEXP-90-C	45	44	Red Mud	17.71149667	-64.77793333

Table 35: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-91-C	47	46	Red Mud	17.711235	-64.77803
RMAEXP-92-C	47	45	Red Mud	17.71100833	-64.777995
RMAEXP-93-C	44	42	Red Mud	17.712125	-64.77814
RMAEXP-94-C	44	42	Red Mud	17.712145	-64.77784167
RMAEXP-95-C	45	43	Red Mud	17.71230167	-64.77759167
RMAEXP-96-C	48	46	Red Mud	17.712335	-64.77731667
RMAEXP-97-C	44	42	Red Mud	17.712345	-64.77704333
RMAEXP-98-C	43	41	Red Mud	17.71226833	-64.77678667
RMAEXP-99-C	45	43	Red Mud	17.712155	-64.77653167
RMAEXP-100-C	48	46	Red Mud	17.712	-64.77627667
RMAEXP-101-C	46	44	Red Mud	17.71178667	-64.77611833
RMAEXP-102-C	44	42	Red Mud	17.711535	-64.77618833
RMAEXP-103-C	44	42	Red Mud	17.71131167	-64.77632
RMAEXP-104-C	44	42	Red Mud	17.71109167	-64.77646833
RMAEXP-105-C	47	46	Red Mud	17.71085333	-64.77657
RMAEXP-106-C	50	48	Red Mud	17.71086333	-64.77683167
RMAEXP-107-C	43	41	Red Mud	17.71063333	-64.77688833
RMAEXP-108-C	38	36	Red Mud	17.71053	-64.776665
RMAEXP-109-C	39	37	Red Mud	17.71122833	-64.776665
RMAEXP-110-C	38	38	Red Mud	17.71116167	-64.77693
RMAEXP-111-C	40	39	Red Mud	17.71137167	-64.77704667
RMAEXP-112-C	43	41	Red Mud	17.71143833	-64.77680667
RMAEXP-113-C	45	43	Red Mud	17.71157	-64.77654667
RMAEXP-114-C	46	44	Red Mud	17.71178167	-64.77666833
RMAEXP-115-C	48	46	Red Mud	17.71176833	-64.77693
RMAEXP-116-C	48	46	Red Mud	17.71196667	-64.77709
RMAEXP-117-C	47	44	Red Mud	17.71203333	-64.77750333
RMAEXP-118-C	46	45	Red Mud	17.71178333	-64.777455
RMAEXP-119-C	46	44	Red Mud	17.71151833	-64.777355
RMAEXP-120-C	43	41	Red Mud	17.71126	-64.77730167

Table 35: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-121-C	38	37	Red Mud	17.71101167	-64.77718667
RMAEXP-122-C	38	37	Red Mud	17.71072667	-64.77717667
RMAEXP-123-C	38	37	Red Mud	17.71046667	-64.77724333
RMAEXP-124-C	41	39	Red Mud	17.71036667	-64.77749667
RMAEXP-125-C	40	40	Red Mud	17.71033167	-64.77777167
RMAEXP-126-C	45	44	Red Mud	17.71182	-64.77803667
RMAEXP-127-C	43	41	Red Mud	17.711945	-64.77790167
RMAEXP-128-C	52	50	Red Mud	17.71044167	-64.77822333
RMAEXP-129-C	56	54	Red Mud	17.71021167	-64.77814
RMAEXP-130-C	50	48	Red Mud	17.71011833	-64.77841333
RMAEXP-131-C	50	48	Red Mud	17.71035	-64.77847
RMAEXP-132-C	38	38	Red Mud	17.71005667	-64.77971833
RMAEXP-133-C	39	38	Red Mud	17.7098	-64.77966
RMAEXP-134-C	47	45	Red Mud	17.709555	-64.779605
RMAEXP-135-C	47	45	Red Mud	17.70935833	-64.77948667
RMAEXP-136-C	46	44	Red Mud	17.70913667	-64.779375
RMAEXP-137-C	46	45	Red Mud	17.70892833	-64.77925
RMAEXP-138-C	46	44	Red Mud	17.70871333	-64.77913
RMAEXP-139-C	46	44	Red Mud	17.70893	-64.78041667
RMAEXP-140-C	47	46	Red Mud	17.70885833	-64.78064833
RMAEXP-141-C	47	47	Red Mud	17.70872	-64.780845
RMAEXP-142-C	42	41	Red Mud	17.708575	-64.78107833
RMAEXP-143-C	43	43	Red Mud	17.708415	-64.7813
RMAEXP-144-C	36	34	Red Mud	17.70830167	-64.781575
RMAEXP-145-C	40	39	Red Mud	17.70827833	-64.78186667
RMAEXP-146-C	44	42	Red Mud	17.708585	-64.78205333
RMAEXP-147-C	44	44	Red Mud	17.70878667	-64.78167667
RMAEXP-148-C	55	50	Red Mud	17.70895167	-64.78131333
RMAEXP-149-C	45	43	Red Mud	17.70907167	-64.78084833
RMAEXP-150-C	33	31	Red Mud	17.70932333	-64.78091167

Table 35: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-151-C	48	45	Red Mud	17.70925167	-64.78118333
RMAEXP-152-C	48	45	Red Mud	17.70911667	-64.78142667
RMAEXP-153-C	33	32	Red Mud	17.70902667	-64.78165833
RMAEXP-154-C	45	43	Red Mud	17.70894333	-64.781935
RMAEXP-155-C	36	35	Red Mud	17.70917667	-64.782025
RMAEXP-156-C	40	38	Red Mud	17.70931333	-64.78177333
RMAEXP-157-C	35	34	Red Mud	17.70940833	-64.78152833
RMAEXP-158-C	33	31	Red Mud	17.70952333	-64.78129167
RMAEXP-159-C	47	44	Red Mud	17.70962333	-64.781045
RMAEXP-160-C	32	30	Red Mud	17.70973167	-64.78078667
RMAEXP-161-C	30	29	Red Mud	17.70982333	-64.78130833
RMAEXP-162-C	32	31	Red Mud	17.71013167	-64.78154167
RMAEXP-163-C	24	22	Red Mud	17.71057167	-64.78187667
Minimum =	**24**	**22**			
Maximum =	**61**	**58**			
Median =	**46**	**44**			
Arithmetic Mean =	**45**	**43**			
One Sigma =	**5.4**	**5.2**			
Two Sigma =	**11**	**10**			

Average Background =	**3.6**	**μR/h**		
Background +/- One Sigma =	**3**	**to**	**4**	**μR/h**
Background +/- Two Sigma =	**2**	**to**	**5**	**μR/h**

Table 36: SAM-940 Gamma Dose Rate Results						
Screening ID	**Reading Type/Location**	**Dose Rate**	**Units**	**Screening Date**	**Detector**	**Probe Type**
BG-S16B	Background/Off-site (WWTP)	4.9	urem/hr	9/21/2011	Gamma	2x2 NaI
BKG09142011	Background/Command Post	0	urem/hr	9/14/2011	Gamma	2x2 NaI
BKG09152011	Background/Command Post	0	urem/hr	9/15/2011	Gamma	2x2 NaI
BKG09162011	Background/Command Post	0	urem/hr	9/16/2011	Gamma	2x2 NaI
BKG09162011pm	Background/Command Post	3.86	urem/hr	9/16/2011	Gamma	2x2 NaI
BKG09192011	Background/Command Post	0	urem/hr	9/19/2011	Gamma	2x2 NaI
BKG09192011pm	Background/Command Post	0	urem/hr	9/19/2011	Gamma	2x2 NaI
BKG09212011	Background/Command Post	0	urem/hr	9/21/2011	Gamma	2x2 NaI
BKG09212011pm	Background/Command Post	0	urem/hr	9/21/2011	Gamma	2x2 NaI
RMA-SD57	RMA/On-Site	39.2	urem/hr	9/21/2011	Gamma	2x2 NaI
RMA-SD58	RMA/On-Site	29.8	urem/hr	9/21/2011	Gamma	2x2 NaI
RMA-WST01	RMA/On-Site	38.2	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST02	RMA/On-Site	53.7	urem/hr	9/15/2011	Gamma	2x2 NaI
RMA-WST03	RMA/On-Site	53.6	urem/hr	9/15/2011	Gamma	2x2 NaI
RMA-WST04	RMA/On-Site	49.8	urem/hr	9/15/2011	Gamma	2x2 NaI
RMA-WST05	RMA/On-Site	61.1	urem/hr	9/15/2011	Gamma	2x2 NaI
RMA-WST07	RMA/On-Site	49.8	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST09B	RMA/On-Site	49.5	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST10B	RMA/On-Site	46.8	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST12B	RMA/On-Site	48.7	urem/hr	9/15/2011	Gamma	2x2 NaI
RMA-WST14B	RMA/On-Site	15.6	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST15	RMA/On-Site	33.9	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST17	RMA/On-Site	43.9	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WST18	RMA/On-Site	56.2	urem/hr	9/15/2011	Gamma	2x2 NaI
RMA-WST19	RMA/On-Site	51.7	urem/hr	9/16/2011	Gamma	2x2 NaI
RMA-WSTR01	RMA/On-Site	62	urem/hr	9/21/2011	Gamma	2x2 NaI
RMA-WSTR02	RMA/On-Site	67.6	urem/hr	9/21/2011	Gamma	2x2 NaI
RMB-WST22	RMB/On-Site	48.2	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST22B	RMB/On-Site	38.6	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST28	RMB/On-Site	57.2	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST29	RMB/On-Site	40.8	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST30B	RMB/On-Site	45.6	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST34B	RMB/On-Site	14.4	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST38	RMB/On-Site	46	urem/hr	9/19/2011	Gamma	2x2 NaI
RMB-WST39	RMB/On-Site	37.4	urem/hr	9/19/2011	Gamma	2x2 NaI

Notes

RMA = Red Mud Disposal Area A

RMB = Red Mud Disposal Area B

WWTP = Waste Water Treatment Plant

urem/hr = micro rem per hour, where rem = Roentgen Equivalent Man

2x2 NaI = 2-inch by 2-inch sodium iodide (NaI) probe

"pm" suffix of some screening readings indicates an afternoon/end of day reading at the Command Post

Table 37: Gamma Spectroscopy Analyses Results of Background Soil Samples Collected Primarily From the Northeast Portion of the Site																	
Field Sample ID	**Lab Sample ID**	**Th-232[(a)]**				**Ra-226[(b)]**				**Ra-228[(c)]**				**U-238[(d)]**			
		Result (pCi/g)	**2 sigma**	**MDC**	**Val. Flag**	**Result (pCi/g)**	**2 sigma**	**MDC**	**Val. Flag**	**Result (pCi/g)**	**2 sigma**	**MDC**	**Val. Flag**	**Result (pCi/g)**	**2 sigma**	**MDC**	**Val. Flag**
BG-S01	B1.11620Z	0.03	0.01	NR		0.06	0.01	NR		0.03	0.01	NR	Q	0.05	0.04	NR	
BG-S01	B1.11620Z (DUP)	0.01	0.01	NR		0.03	0.02	NR		ND	ND	NR	U	NR	NR	NR	U
BG-S07	B1.11621A	0.5	0.2	NR		0.37	0.05	NR		0.53	0.08	NR	Q	NR	NR	NR	U
BG-S08	B1.11622B	0.5	0.2	NR		0.28	0.04	NR		0.39	0.06	NR	Q	NR	NR	NR	U
BG-S09	B1.11623C	0.2	0.1	NR		0.16	0.02	NR		0.16	0.03	NR	Q	0.09	0.06	NR	
BG-S10	B1.11624D	0.4	0.1	NR		0.24	0.04	NR		0.30	0.05	NR	Q	NR	NR	NR	U
BG-S11	B1.11625E	0.2	0.2	NR		0.16	0.03	NR		0.24	0.05	NR	Q	NR	NR	NR	U
BG-S12	B1.11626F	0.8	0.2	NR		0.57	0.07	NR		0.7	0.1	NR	Q	NR	NR	NR	U
BG-S13	B1.11627G	0.5	0.2	NR		0.37	0.05	NR		0.47	0.07	NR	Q	NR	NR	NR	U
BG-S14	B1.11628H	0.5	0.2	NR		0.44	0.06	NR		0.47	0.07	NR	Q	NR	NR	NR	U
BG-S15	B1.11629J	0.3	0.1	NR		0.40	0.05	NR		0.25	0.04	NR	Q	2	1	NR	
BG-S16A	B1.11630B	0.1	0.1	NR		0.24	0.03	NR		0.19	0.03	NR	Q	NR	NR	NR	U
Range (pCi/g) =		0.01 to 0.76				0.03 to 0.57				0.03 to 0.74				0.05 to 2.17			
Average (pCi/g) =		0.33				0.28				0.34				0.77			
Sigma (pCi/g) =		0.22				0.16				0.20				1.21			

(a) Estimated using the Bi-212 or when Bi-212 is not reported using the Pb-212 or Tl-208 with the assumption of secular equilibrium..
(b) Estimated using the Bi-214 or when Bi-214 is not reported using the Pb-214 with the assumption of secular equilibrium.
(c) Estimated using the Ac-228 energy peak.
(d) Estimated using the Pa-234m or when Pa-234m is not reported using the Th-234 with the assumption of secular equilibrium.
NR - Not Reported, NA - Not Applicable, Q= No duplicate result available
ND - Non-Detectable (DUP) - Laboratory Duplicate
U - Isotope was not detected above the noted MDC

Table 38: Alpha Spectroscopy Analyses of Background Soil Samples Collected Primarily from the Northeast Portion of the Site

Field Sample ID	Lab Sample ID	Th-230				Th-232				U-234				U-235				U-238			
		Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
BG-S01	B1.11620Z	0.1	0.1	0.1	J	0.04	0.07	0.08	U	0.04	0.05	0.07	U	0.01	0.05	0.09	U	0.12	0.08	0.05	
BG-S07	B1.11621A	0.6	0.2	0.04		0.5	0.2	0.08		0.2	0.1	0.04	J	0.01	0.03	0.05	U	0.3	0.1	0.07	
BG-S07	B1.11621A (DUP)	0.7	0.2	0.04		0.5	0.2	0.07		0.3	0.1	0.04	J	0.03	0.05	0.05	U	0.3	0.1	0.06	
BG-S08	B1.11622B	0.4	0.1	0.1		0.4	0.1	0.04		0.2	0.1	0.07	J	0.06	0.06	0.07	U	0.2	0.1	0.06	
BG-S09	B1.11623C	0.2	0.1	0.1	J	0.1	0.1	0.04		0.3	0.1	0.06	J	0.01	0.04	0.06	U	0.15	0.09	0.06	
BG-S10	B1.11624D	0.5	0.2	0.1		0.3	0.1	0.09		0.2	0.1	0.06	J	0.02	0.04	0.05	U	0.13	0.08	0.06	
BG-S11	B1.11625E	0.3	0.1	0.05	J	0.3	0.1	0.08		0.2	0.1	0.04	J	0.03	0.05	0.05	U	0.20	0.09	0.06	
BG-S12	B1.11626F	0.9	0.2	0.1		0.7	0.2	0.08		0.3	0.1	0.07	J	0.00	0.04	0.08	U	0.3	0.1	0.06	
BG-S13	B1.11627G	0.4	0.1	0.04		0.4	0.1	0.06		0.2	0.1	0.05	J	0.04	0.05	0.06	U	0.2	0.1	0.06	
BG-S14	B1.11628H	0.5	0.2	0.04		0.5	0.2	0.07		0.3	0.1	0.04	J	0.04	0.05	0.06	U	0.3	0.1	0.05	
BG-S15	B1.11629J	0.6	0.2	0.05		0.3	0.1	0.08		0.3	0.1	0.07	J	0.02	0.04	0.05	U	0.3	0.1	0.04	
BG-S16A	B1.11630B	0.3	0.1	0.1	J	0.2	0.1	0.08		0.2	0.1	0.07	J	0.00	0.04	0.08	U	0.2	0.1	0.07	
	Range (pCi/g) =	0.15	to	0.86		0.04	to	0.73		0.04	to	0.33		0.00	to	0.06		0.12	to	0.34	
	Average (pCi/g) =	0.46				0.36				0.23				0.02				0.23			
	Sigma (pCi/g) =	0.22				0.19				0.07				0.02				0.07			

J = an estimated value
U = isotope was not detected above the noted MDC
(DUP) - Laboratory Duplicate

Table 39: Radiological results of Background Soil Samples Collected Primarily from the Northeast Portion of the Site

Field Sample ID	Lab Sample ID	Th-230[a]			Th-232[a]			Ra-226[b]			Ra-228[b]			U-234[a]			U-235[a]			U-238[a]		
		Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC
BG-S01	B1.11620Z	0.15	0.1	0.13	0.04	0.07	0.08	0.06	0.01	NR	0.03	0.01	NR	0.04	0.05	0.07	0.01	0.05	0.09	0.12	0.08	0.05
BG-S01	B1.11620Z (DUP)	NA	NA	NA	NA	NA	NA	0.03	0.02	NR	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-S07	B1.11621A	0.62	0.2	0.04	0.53	0.2	0.08	0.37	0.05	NR	0.53	0.08	NR	0.24	0.1	0.04	0.01	0.03	0.05	0.28	0.1	0.07
BG-S07	B1.11621A (DUP)	0.68	0.2	0.04	0.50	0.2	0.07	NA	NA	NA	NA	NA	NA	0.29	0.1	0.04	0.03	0.05	0.05	0.3	0.1	0.06
BG-S08	B1.11622B	0.36	0.1	0.07	0.44	0.1	0.04	0.28	0.04	NR	0.39	0.06	NR	0.23	0.1	0.07	0.06	0.06	0.07	0.24	0.1	0.06
BG-S09	B1.11623C	0.15	0.1	0.06	0.15	0.08	0.04	0.16	0.02	NR	0.16	0.03	NR	0.26	0.1	0.06	0.01	0.04	0.06	0.15	0.09	0.06
BG-S10	B1.11624D	0.51	0.2	0.06	0.25	0.1	0.09	0.24	0.04	NR	0.30	0.05	NR	0.22	0.1	0.06	0.02	0.04	0.05	0.13	0.08	0.06
BG-S11	B1.11625E	0.29	0.1	0.05	0.27	0.1	0.08	0.16	0.03	NR	0.24	0.05	NR	0.24	0.1	0.04	0.03	0.05	0.05	0.2	0.09	0.06
BG-S12	B1.11626F	0.86	0.2	0.07	0.73	0.2	0.08	0.57	0.07	NR	0.74	0.1	NR	0.26	0.1	0.07	0.00	0.04	0.08	0.31	0.1	0.06
BG-S13	B1.11627G	0.43	0.1	0.04	0.37	0.1	0.06	0.37	0.05	NR	0.47	0.07	NR	0.16	0.1	0.05	0.04	0.05	0.06	0.21	0.09	0.06
BG-S14	B1.11628H	0.53	0.2	0.04	0.53	0.2	0.07	0.44	0.06	NR	0.47	0.07	NR	0.33	0.1	0.04	0.04	0.05	0.06	0.26	0.1	0.05
BG-S15	B1.11629J	0.63	0.2	0.05	0.27	0.1	0.08	0.4	0.05	NR	0.25	0.04	NR	0.27	0.1	0.07	0.02	0.04	0.05	0.34	0.1	0.04
BG-S16A	B1.11630B	0.31	0.1	0.06	0.24	0.1	0.08	0.24	0.03	NR	0.19	0.03	NR	0.21	0.1	0.07	0.00	0.04	0.08	0.22	0.1	0.07
	Range (pCi/g) =	0.15	to	0.86	0.04	to	0.73	0.03	to	0.57	0.03	to	0.74	0.04	to	0.33	0.00	to	0.06	0.12	to	0.34
	Average (pCi/g) =	0.46			0.36			0.28			0.34			0.23			0.02			0.23		
	Sigma (pCi/g) =	0.22			0.19			0.16			0.20			0.07			0.02			0.07		

(a) Isoptoic analyses results as reported in Table 5-3B
(b) Gamma spectroscopy analyses results as reported in Table 5-3A
(DUP) - Laboratory Duplicate

Table 40: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																		
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST01A	B1.11274B	Surface waste sample from Red Mud Disposal Area A	11	1	NR		1.6	0.2	NR		10	1	NR		2	1	NR	
RMA-WST02A	B1.11275C	Surface waste sample from Red Mud Disposal Area A	15	2	NR		3.2	0.4	NR		14	2	NR		4	2	NR	
RMA-WST03A	B1.11276D	Surface waste sample from Red Mud Disposal Area A	15	2	NR		3.4	0.4	NR		14	2	NR		5	2	NR	
RMA-WST04A	B1.11277E	Surface waste sample from Red Mud Disposal Area A	12	1	NR		2.6	0.3	NR		11	1	NR		3	2	NR	
RMA-WST06A	B1.11278F	Surface waste sample from Red Mud Disposal Area A	14	2	NR		3.8	0.4	NR		13	1	NR		5	1	NR	
RMA-WST07A	B1.11279G	Surface waste sample from Red Mud Disposal Area A	15	2	NR		3.3	0.4	NR		14	2	NR		4	2	NR	
RMA-WST09A	B1.11280Z	Surface waste sample from Red Mud Disposal Area A	13	2	NR		2.6	0.3	NR		13	2	NR		4	2	NR	
RMA-WST09A	B1.11280Z (DUP)	Lab duplicate of RMA-WST09A	13	2	NR		2.6	0.3	NR		13	1	NR		2	1	NR	
RMA-WST09B	B1.11281A	Subsurface waste sample from Red Mud Disposal Area A; depth = 7'	17	2	NR		4.1	0.5	NR		16	2	NR		3	2	NR	
RMA-WST11A	B1.11282B	Surface waste sample from Red Mud Disposal Area A	16	2	NR		3.8	0.4	NR		15	2	NR		5	2	NR	
RMA-WST12A	B1.11283C	Surface waste sample from Red Mud Disposal Area A	21	2	NR		3.5	0.4	NR		19	2	NR		4	2	NR	
RMA-WST14A	B1.11284D	Surface waste sample from Red Mud Disposal Area A	11	1	NR		2.8	0.3	NR		11	1	NR		3	2	NR	
RMA-WST14B	B1.11285E	Subsurface waste sample from Red Mud Disposal Area A; depth = 3.5'	11	1	NR		2.2	0.3	NR		11	1	NR		2	2	NR	
RMA-WST15A	B1.11286F	Surface waste sample from Red Mud Disposal Area A	11	1	NR		2.5	0.3	NR		11	1	NR		2	2	NR	
RMA-WST16A	B1.11287G	Surface waste sample from Red Mud Disposal Area A	13	2	NR		3.1	0.4	NR		13	2	NR		4	2	NR	
RMA-WST16B	B1.11288H	Subsurface waste sample from Red Mud Disposal Area A; depth = 7.5'	13	2	NR		3.1	0.4	NR		13	2	NR		3	2	NR	
RMA-WST17A	B1.11289J	Surface waste sample from Red Mud Disposal Area A	14	2	NR		3.3	0.4	NR		13	2	NR		5	1	NR	
RMA-WST17B	B1.11290B	Subsurface waste sample from Red Mud Disposal Area A; depth = 3'	12	1	NR		3.0	0.4	NR		12	1	NR		3	1	NR	
RMA-WST18A	B1.11291C	Surface waste sample from Red Mud Disposal Area A	16	2	NR		3.9	0.5	NR		15	2	NR		6	2	NR	
RMA-WST19A	B1.11292D	Surface waste sample from Red Mud Disposal Area A	16	2	NR		3.5	0.4	NR		15	2	NR		5	2	NR	
RMA-WST20A	B1.11293E	Surface waste sample from Red Mud Disposal Area A	16	2	NR		3.3	0.4	NR		15	2	NR		4	2	NR	
ADP-WST41A	B1.11405U	Surface waste sample from Ash Disposal area	0.9	0.3	NR		1.3	0.2	NR		0.9	0.1	NR		3	2	NR	

Table 40: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																		
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
ADP-WST41B	B1.11406V	Subsurface waste sample from Ash Disposal area; depth = 4'	0.4	0.4	NR		0.6	0.1	NR		0.7	0.1	NR		1	1	NR	
ADP-WST41C	B1.11407W	Duplicate of ADP-WST41B	0.7	0.3	NR		0.8	0.1	NR		0.8	0.1	NR		NR	NR	NR	
ADP-WST42A	B1.11408X	Surface waste sample from Ash Disposal area	1.0	0.3	NR		1.6	0.2	NR		1.0	0.1	NR		2	2	NR	
ADP-WST42B	B1.11409Y	Subsurface waste sample from Ash Disposal area; depth = 4'	1.0	0.2	NR		1.3	0.2	NR		0.8	0.1	NR		1.1	0.3	NR	
FBS-WST44A	B1.11410Q	Surface waste red mud sample from pile in Former Bauxite Storage shed	5.6	0.7	NR		1.1	0.1	NR		6	1	NR		1.1	0.3	NR	
FBS-WST44A	B1.11410Q (DUP)	Lab duplicate of FBS-WST44A	5.8	0.7	NR		1.1	0.1	NR		6	1	NR		2	2	NR	
FBS-WST45A	B1.11411R	Surface waste red mud sample from pile in Former Bauxite Storage shed	10	1	NR		2.1	0.3	NR		10	1	NR		3	1	NR	
FBS-WST46A	B1.11412T	Surface waste red mud sample from pile in Former Bauxite Storage shed	7	1	NR		1.3	0.2	NR		8	1	NR		1.4	0.3	NR	
RMB-WST24A	B1.11413U	Surface waste sample from Red Mud Disposal Area B	9	1	NR		3.5	0.4	NR		9	1	NR		2	2	NR	
RMB-WST28A	B1.11414V	Surface waste sample from Red Mud Disposal Area B	25	3	NR		5.3	0.6	NR		24	3	NR		5	3	NR	
RMB-WST29A	B1.11415W	Surface waste sample from Red Mud Disposal Area B	7.7	0.9	NR		2.9	0.3	NR		8	1	NR		4	1	NR	
RMB-WST30A	B1.11416X	Surface waste sample from Red Mud Disposal Area B	22	3	NR		4.8	0.6	NR		21	3	NR		4	3	NR	
RMB-WST30B	B1.11417Y	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	17	2	NR		9	1	NR		16	2	NR		7	2	NR	
RMB-WST32A	B1.11418Z	Surface waste sample from Red Mud Disposal Area B	7.0	0.9	NR		2.3	0.3	NR		7	1	NR		4	2	NR	
RMB-WST34A	B1.11419A	Surface waste sample from Red Mud Disposal Area B	10	1	NR		4.0	0.5	NR		10	1	NR		2	2	NR	
RMB-WST36A	B1.11420T	Surface waste sample from Red Mud Disposal Area B	23	3	NR		4.7	0.6	NR		22	3	NR		5	3	NR	
RMB-WST38A	B1.11421U	Surface waste sample from Red Mud Disposal Area B	26	3	NR		4.9	0.6	NR		25	3	NR		6	3	NR	
RMB-WST39A	B1.11422V	Surface waste sample from Red Mud Disposal Area B	12	2	NR		4.5	0.5	NR		12	1	NR		5	3	NR	
RMB-WST39B	B1.11423W	Subsurface waste sample from Red Mud Disposal Area B; depth = 3'	19	2	NR		5.0	0.6	NR		19	2	NR		7	3	NR	
RMB-WST40A	B1.11424X	Surface waste sample from Red Mud Disposal Area B; red sand area	9	1	NR		0.9	0.1	NR		9	1	NR		NR	NR	NR	
RMA-WST01B	B1.11425Y	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	12	1	NR		3.0	0.4	NR		11	1	NR	Q	5	2	NR	
RMA-WST01C	B1.11426Z	Duplicate of RMA-WST01B	12	1	NR		3.0	0.3	NR		11	1	NR	Q	5	2	NR	

Table 40: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																		
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST03B	B1.11427A	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	15	2	NR		3.4	0.4	NR		15	2	NR	Q	4	2	NR	
RMA-WST10B	B1.11428B	Subsurface waste sample from Red Mud Disposal Area A; depth = 5-6'	17	2	NR		2.9	0.3	NR		16	2	NR	Q	4	2	NR	
RMA-WST12B	B1.11429C	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	25	3	NR		4.2	0.5	NR		24	3	NR	Q	7	3	NR	
ADP-SD49	B1.11619G	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	1	0	NR		0.8	0.1	NR		1.3	0.2	NR	Q	2	2	NR	
LCP-SD33	B1.11631C	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	0	0	NR		0.1	0.0	NR		0.3	0.1	NR	Q	2	1	NR	
RMA-WST13A	B1.11632D	Surface waste sample from Red Mud Disposal Area A	14	2	NR		3.0	0.4	NR		13	1	NR	Q	4	1	NR	
RMA-WST13B	B1.11633E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	14	2	NR		4.6	0.5	NR		14	2	NR	Q	8	2	NR	
RMA-WST20B	B1.11634F	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	14	2	NR		2.8	0.3	NR		13	2	NR		3	2	NR	
RMA-WSTR01A	B1.11635G	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	18	2	NR		4.7	0.6	NR		17	2	NR		3	2	NR	
RMA-WSTR02A	B1.11636H	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	15	2	NR		3.6	0.4	NR		14	2	NR		4	2	NR	
RMS-SD45	B1.11637J	Sediment sample from same location as RMS-SW45; red clay with some silt and fine sand	13	2	NR		3.3	0.4	NR		12	1	NR		3	2	NR	
UCP-SD35	B1.11638K	Sediment sample from same location as UCP-SW35; red mud in mud flat sediments	2.9	0.4	NR		0.5	0.1	NR		2.4	0.3	NR		3	2	NR	
UCP-SD37	B1.11639L	Sediment sample from same location as UCP-SW37; red mud, heavy silting	8	1	NR		1.8	0.2	NR		7	1	NR		5	2	NR	
UCP-SD39	B1.11640D	Sediment sample from same location as UCP-SW39; red clay with some fine sand, soft	13	2	NR		3.1	0.4	NR		13	2	NR		4	2	NR	
UCP-SD39	B1.11640D (DUP)	Lab duplicate of UCP-SD39	14	2	NR		3.2	0.4	NR		13	2	NR		4	2	NR	
RMA-WST02B	B1.11641E	Subsurface waste sample from Red Mud Disposal Area A; depth = 2-4'	15	2	NR		3.4	0.4	NR		15	2	NR		5	3	NR	

Table 40: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																		
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST04B	B1.11642F	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	11	1	NR		2.3	0.3	NR		11	1	NR		3	2	NR	
RMA-WST05A	B1.11643G	Surface waste sample from Red Mud Disposal Area A	17	2	NR		3.9	0.5	NR		16	2	NR		4	3	NR	
RMA-WST05B	B1.11644H	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	17	2	NR		3.8	0.5	NR		16	2	NR		4	3	NR	
RMA-WST06B	B1.11645J	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	16	2	NR		4.5	0.5	NR		15	2	NR		13	3	NR	
RMA-WST07B	B1.11646K	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	18	2	NR		6.7	0.8	NR		18	2	NR		7	3	NR	
RMA-WST08A	B1.11647L	Surface waste sample from Red Mud Disposal Area A	14	2	NR		2.7	0.3	NR		12	1	NR		3	2	NR	
RMA-WST10A	B1.11648M	Surface waste sample from Red Mud Disposal Area A	11	1	NR		2.3	0.3	NR		11	1	NR		2	2	NR	
RMA-WST11B	B1.11649N	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	16	2	NR		3.4	0.4	NR		16	2	NR		5	3	NR	
RMA-WST11C	B1.11650F	Duplicate of RMA-WST11A	16	2	NR		3.9	0.5	NR		16	2	NR		12	3	NR	
RMA-WST19B	B1.11651G	Subsurface waste sample from Red Mud Disposal Area A; depth = 5'	13	2	NR		3.0	0.4	NR		12	1	NR		3	3	NR	
RMB-WST22A	B1.11652H	Surface waste sample from Red Mud Disposal Area B; sandy red mud	15	2	NR		7.5	0.9	NR		14	2	NR		7	3	NR	
RMB-WST22B	B1.11653J	Subsurface waste sample from Red Mud Disposal Area B; sandy red mud; depth = 10'	9	1	NR		4.6	0.5	NR		9	1	NR		6	2	NR	
RMB-WST23A	B1.11654K	Surface waste sample from Red Mud Disposal Area B	14	2	NR		4.9	0.6	NR		13	2	NR		5	2	NR	
RMB-WST23B	B1.11655L	Subsurface waste sample from Red Mud Disposal Area B; granular material; depth = 7.5'	11	1	NR		4.9	0.6	NR		10	1	NR		6	1	NR	
RMB-WST23C	B1.11656M	Duplicate of RMB-WST23B	10	1	NR		4.4	0.5	NR		9	1	NR		7	2	NR	
RMB-WST28B	B1.11657N	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	15	2	NR		7.2	0.8	NR		14	2	NR		8	3	NR	
RMB-WST29B	B1.11658P	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5'	13	2	NR	J	5.9	0.7	NR	J	13	2	NR	J	7	3	NR	J
RMB-WST34B	B1.11659Q	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5-4'	14	2	NR		5.0	0.6	NR		13	2	NR		4	2	NR	
RMB-WST37A	B1.11660H	Surface waste sample from Red Mud Disposal Area B	13	2	NR		5.1	0.6	NR		12	1	NR		5	2	NR	
RMB-WST37A	B1.11660H (DUP)	Lab duplicate of RMB-WST37A	13	2	NR		5.3	0.6	NR		12	1	NR		5	2	NR	

Table 40: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																		
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMB-WST37B	B1.11661J	Subsurface waste sample from Red Mud Disposal Area B; depth = 8'	16	2	NR		4.6	0.5	NR		16	2	NR		5	3	NR	
FBS-WST43A	B1.11720C	Surface waste red mud sample from drainage channel behind Former Bauxite Storage shed	5	1	NR		1.0	0.1	NR		5	1	NR		1	1	NR	
RMA-SD57	B1.11721D	*Sample from red mud depositional area south of Area A*	12	1	NR		2.7	0.3	NR		11	1	NR		3	2	NR	
RMA-SD58	B1.11722E	*Sample from red mud depositional area south of Area A*	7	1	NR		2.0	0.2	NR		8	1	NR		3	1	NR	
RMA-SD59	B1.11723F	*Sample from red mud depositional area south of Area A*	12	1	NR		3.1	0.4	NR		11	1	NR		4	2	NR	
RMA-SD60	B1.11724G	*Sample from red mud depositional area south of Area A*	11	1	NR		2.6	0.3	NR		11	1	NR		2	1	NR	
RMA-SD61	B1.11725H	*Sample from red mud depositional area south of Area A*	5	1	NR		0.8	0.1	NR		5	1	NR		1	1	NR	
RMA-SD61	B1.11725H (DUP)	*Lab duplicate of RMA-SD61*	5	1	NR		0.9	0.1	NR		5	1	NR		2	1	NR	
RMA-SD62	B1.11726J	*Sample from red mud depositional area south of Area A*	11	1	NR		2.4	0.3	NR		10	1	NR		2	1	NR	
RMA-SD63	B1.11727K	*Duplicate of RMA-SD62*	10	1	NR		2.2	0.3	NR		9	1	NR		2	1	NR	
RMA-WST06B(2)	B1.11728L	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	13	2	NR		4.0	0.5	NR		13	2	NR		2	2	NR	
RMA-WST08B	B1.11729M	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	16	2	NR		3.7	0.4	NR		16	2	NR		4	2	NR	
RMA-WST18B	B1.11730E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	17	2	NR		3.7	0.4	NR		17	2	NR		3	3	NR	

(a) Estimated using the Bi-212 or when Bi-212 is not reported using the Pb-212 or Tl-208 with the assumption of secular equilibrium..
(b) Estimated using the Bi-214 or when Bi-214 is not reported using the Pb-214 with the assumption of secular equilibrium.
(c) Estimated using the Ac-228 energy peak.
(d) Estimated using the Pa-234m or when Pa-234m is not reported using the Th-234 with the assumption of secular equilibrium.
NR - Not Reported, NA - Not Applicable, J - Reported value is estimated, Q - duplicate analysis not reported
(DUP) - Laboratory Duplicate

Table 41: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																					
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST01A	B1.11274B	Surface waste sample from Red Mud Disposal Area A	1.0	0.3	0.1		9	1	0.1		1.2	0.3	0.1		0.02	0.05	0.08	U	1.3	0.3	0.06	
RMA-WST02A	B1.11275C	Surface waste sample from Red Mud Disposal Area A	3.4	0.6	0.1		14	2	0.1		3.0	0.5	0.05		0.2	0.1	0.08		3.4	0.6	0.08	
RMA-WST02A	B1.11275C (DUP)	Lab duplicate of RMA-WST02A	3.5	0.6	0.1		13	2	0.1		2.8	0.5	0.1		0.1	0.1	0.06		3.2	0.5	0.08	
RMA-WST03A	B1.11276D	Surface waste sample from Red Mud Disposal Area A	3.3	0.6	0.1		14	2	0.1		3.9	0.6	0.1		0.2	0.1	0.06		3.9	0.6	0.05	
RMA-WST04A	B1.11277E	Surface waste sample from Red Mud Disposal Area A	2.5	0.5	0.1		11	1	0.1		2.4	0.4	0.1		0.2	0.1	0.06		2.7	0.5	0.05	
RMA-WST06A	B1.11278F	Surface waste sample from Red Mud Disposal Area A	3.9	0.6	0.1		12	2	0.1		4.4	0.7	0.1		0.3	0.2	0.10		3.6	0.6	0.08	
RMA-WST07A	B1.11279G	Surface waste sample from Red Mud Disposal Area A	3.2	0.6	0.1	J	13	2	0.1	J	4.9	0.7	0.1		0.2	0.1	0.08		3.8	0.6	0.08	
RMA-WST09A	B1.11280Z	Surface waste sample from Red Mud Disposal Area A	2.0	0.4	0.1		10	1	0.1		2.1	0.4	0.1		0.1	0.1	0.11		2.2	0.4	0.05	
RMA-WST09B	B1.11281A	Subsurface waste sample from Red Mud Disposal Area A; depth = 7'	3.5	0.6	0.1		14	2	0.2		3.4	0.5	0.1		0.2	0.1	0.07		3.4	0.5	0.08	
RMA-WST11A	B1.11282B	Surface waste sample from Red Mud Disposal Area A	3.6	0.6	0.1		14	2	0.1		3.5	0.6	0.1		0.3	0.1	0.06		3.1	0.5	0.07	
RMA-WST12A	B1.11283C	Surface waste sample from Red Mud Disposal Area A	3.3	0.6	0.2		16	2	0.2		2.7	0.5	0.05		0.2	0.1	0.06		2.6	0.5	0.06	
RMA-WST14A	B1.11284D	Surface waste sample from Red Mud Disposal Area A	1.8	0.4	0.1		9	1	0.1		1.4	0.3	0.1		0.1	0.1	0.07		1.5	0.3	0.04	
RMA-WST14A	B1.11284D (DUP)	Lab duplicate of RMA-WST14A	2.2	0.5	0.1		9	1	0.1		1.6	0.3	0.1		0.1	0.1	0.06		1.4	0.3	0.06	
RMA-WST14B	B1.11285E	Subsurface waste sample from Red Mud Disposal Area A; depth = 3.5'	2.3	0.5	0.1		11	1	0.1		1.6	0.3	0.1		0.0	0.1	0.05	U	1.9	0.3	0.06	
RMA-WST15A	B1.11286F	Surface waste sample from Red Mud Disposal Area A	1.9	0.4	0.1		9	1	0.2		1.4	0.3	0.1		0.2	0.1	0.08		1.4	0.3	0.06	
RMA-WST16A	B1.11287G	Surface waste sample from Red Mud Disposal Area A	2.3	0.5	0.1		10	1	0.1		1.6	0.3	0.1		0.1	0.1	0.07	B	2.1	0.4	0.08	
RMA-WST16B	B1.11288H	Subsurface waste sample from Red Mud Disposal Area A; depth = 7.5'	2.3	0.5	0.1		11	1	0.2		1.8	0.4	0.1		0.1	0.1	0.08		2.2	0.4	0.09	
RMA-WST17A	B1.11289J	Surface waste sample from Red Mud Disposal Area A	2.9	0.5	0.2		11	1	0.1		2.8	0.6	0.1		0.2	0.1	0.12		2.5	0.5	0.1	
RMA-WST17B	B1.11290B	Subsurface waste sample from Red Mud Disposal Area A; depth = 3'	2.7	0.5	0.1		9	1	0.1		1.5	0.3	0.1		0.1	0.1	0.07		2.1	0.4	0.07	
RMA-WST18A	B1.11291C	Surface waste sample from Red Mud Disposal Area A	3.8	0.7	0.1		14	2	0.1		6.1	0.9	0.1		0.3	0.1	0.07		5.7	0.8	0.07	
RMA-WST19A	B1.11292D	Surface waste sample from Red Mud Disposal Area A	3.8	0.6	0.1		13	1	0.1		3.0	0.5	0.1		0.2	0.1	0.07		2.8	0.5	0.08	
RMA-WST20A	B1.11293E	Surface waste sample from Red Mud Disposal Area A	3.6	0.6	0.1		12	1	0.2		4.2	0.6	0.05		0.1	0.1	0.05		3.8	0.6	0.06	
ADP-WST41A	B1.11405U	Surface waste sample from Ash Disposal area	1.5	0.3	0.04		1	0.2	0.04		1.4	0.3	0.1		0.1	0.1	0.04		1.4	0.3	0.04	
ADP-WST41B	B1.11406V	Subsurface waste sample from Ash Disposal area; depth = 4'	0.6	0.1	0.02		1	0.1	0.02		0.6	0.1	0.02		0.04	0.03	0.02	J	0.6	0.1	0.02	
ADP-WST41C	B1.11407W	Duplicate of ADP-WST41B	0.9	0.1	0.03	J	1	0.1	0.03	J	0.7	0.1	0.02		0.02	0.02	0.02		0.6	0.1	0.02	
ADP-WST41C	B1.11407W (DUP)	Lab duplicate of RMA-WST41C	0.7	0.1	0.03	J	1	0.1	0.02	J	0.8	0.2	0.03		0.04	0.03	0.04		0.7	0.1	0.02	
ADP-WST42A	B1.11408X	Surface waste sample from Ash Disposal area	1.9	0.3	0.1		1	0.2	0.1		1.5	0.3	0.1		0.1	0.1	0.07	U	1.4	0.3	0.07	

Table 41: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
ADP-WST42B	B1.11409Y	Subsurface waste sample from Ash Disposal area; depth = 4'	1.3	0.2	0.05		1	0.1	0.04		1.1	0.2	0.03		0.04	0.04	0.03		1.1	0.2	0.03	
FBS-WST44A	B1.11410Q	Surface waste red mud sample from pile in Former Bauxite Storage shed	1.0	0.2	0.05		5	1	0.1		0.9	0.2	0.1		0.1	0.1	0.05		0.7	0.2	0.07	
FBS-WST45A	B1.11411R	Surface waste red mud sample from pile in Former Bauxite Storage shed	2.3	0.4	0.04		10	1	0.1		2.6	0.4	0.1		0.1	0.1	0.07	U	2.4	0.4	0.06	
FBS-WST46A	B1.11412T	Surface waste red mud sample from pile in Former Bauxite Storage shed	1.5	0.3	0.04		8	1	0.04		1.2	0.3	0.1		0.1	0.1	0.05		1.2	0.3	0.07	
RMB-WST24A	B1.11413U	Surface waste sample from Red Mud Disposal Area B	3.2	0.5	0.1	J	8	1	0.1	J	2.1	0.4	0.1		0.1	0.1	0.06		1.8	0.4	0.05	
RMB-WST28A	B1.11414V	Surface waste sample from Red Mud Disposal Area B	5.1	0.7	0.1		21	2	0.1		2.4	0.4	0.1		0.2	0.1	0.06		2.7	0.5	0.05	
RMB-WST29A	B1.11415W	Surface waste sample from Red Mud Disposal Area B	3.1	0.5	0.05		7	1	0.1		2.2	0.4	0.05		0.1	0.1	0.09	U	1.6	0.3	0.09	
RMB-WST30A	B1.11416X	Surface waste sample from Red Mud Disposal Area B	4.5	0.6	0.1		17	2	0.1		3.2	0.5	0.1		0.1	0.1	0.07		3.3	0.5	0.07	
RMB-WST30B	B1.11417Y	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	9	1.0	0.1	J	14	2	0.05		4.8	0.7	0.1		0.4	0.2	0.06		4.8	0.7	0.06	
RMB-WST32A	B1.11418Z	Surface waste sample from Red Mud Disposal Area B	2.1	0.3	0.04	J	6	1	0.1	J	3.2	0.5	0.1		0.3	0.1	0.05		3.0	0.5	0.05	
RMB-WST34A	B1.11419A	Surface waste sample from Red Mud Disposal Area B	3.0	0.5	0.1		9	1	0.05		1.7	0.3	0.05		0.1	0.1	0.09		1.1	0.3	0.05	
RMB-WST36A	B1.11420T	Surface waste sample from Red Mud Disposal Area B	5.2	0.7	0.1		19	2	0.1		2.9	0.5	0.1		0.2	0.1	0.08	J	2.7	0.4	0.04	
RMB-WST38A	B1.11421U	Surface waste sample from Red Mud Disposal Area B	4.6	0.6	0.1	J	21	2	0.1		3.3	0.5	0.1		0.2	0.1	0.08		3.2	0.5	0.07	
RMB-WST39A	B1.11422V	Surface waste sample from Red Mud Disposal Area B	4.4	0.6	0.04		11	1	0.04		2.8	0.5	0.1		0.1	0.1	0.05	J	3.1	0.5	0.06	
RMB-WST39B	B1.11423W	Subsurface waste sample from Red Mud Disposal Area B; depth = 3'	5.5	0.7	0.1		16	2	0.1		5.4	0.8	0.1		0.2	0.1	0.08	J	4.9	0.7	0.06	
RMB-WST40A	B1.11424X	Surface waste sample from Red Mud Disposal Area B; red sand area	1.1	0.3	0.1		10	1	0.1		1.1	0.2	0.1		0.1	0.1	0.06	U	0.8	0.2	0.05	J
RMA-WST01B	B1.11425Y	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	1.5	0.3	0.1		5	1	0.1		1.2	0.2	0.04		0.1	0.1	0.08		1.4	0.3	0.06	
RMA-WST01C	B1.11426Z	Duplicate of RMA-WST01B	3.0	0.5	0.05		11	1	0.1		2.8	0.4	0.1		0.1	0.1	0.08		2.5	0.4	0.04	
RMA-WST03B	B1.11427A	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	3.4	0.5	0.1		13	1	0.1		2.2	0.4	0.1		0.2	0.1	0.07		2.6	0.4	0.08	
RMA-WST10B	B1.11428B	Subsurface waste sample from Red Mud Disposal Area A; depth = 5-6'	2.8	0.4	0.1		16	2	0.1		2.6	0.4	0.05		0.2	0.1	0.05		2.4	0.4	0.07	
RMA-WST12B	B1.11429C	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	4.0	0.5	0.1		22	2	0.1		3.6	0.5	0.04		0.2	0.1	0.06		3.1	0.5	0.06	
ADP-SD49	B1.11619G	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	1.0	0.2	0.03		1	0.2	0.04		0.8	0.2	0.1		0.05	0.05	0.05		0.7	0.2	0.03	
LCP-SD33	B1.11631C	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	0.3	0.2	0.1	J	0.4	0.2	0.1	J	3.7	0.5	0.05		0.2	0.1	0.06		3.4	0.5	0.06	
RMA-WST13A	B1.11632D	Surface waste sample from Red Mud Disposal Area A	3.6	0.5	0.1		13	1	0.1		2.8	0.5	0.1		0.1	0.1	0.06		2.7	0.5	0.09	

Table 41: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST13B	B1.11633E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	4.5	0.6	0.1		13	1	0.1		3.7	0.6	0.1		0.2	0.1	0.07		3.6	0.6	0.05	
RMA-WST20B	B1.11634F	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	2.5	0.5	0.1		12	1	0.1		2.2	0.5	0.1		0.0	0.1	0.14	U	1.6	0.4	0.1	
RMA-WST20B	B1.11634F (DUP)	Lab duplicate of RMA-WST20B	2.5	0.5	0.1		11	1	0.2		2.2	0.5	0.2		0.2	0.1	0.11		2.1	0.5	0.1	
RMA-WSTR01A	B1.11635G	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	3.0	0.6	0.1		14	2	0.1		2.1	0.5	0.1		0.2	0.1	0.10		1.6	0.4	0.1	
RMA-WSTR02A	B1.11636H	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	3.0	0.6	0.1		14	2	0.1		2.1	0.5	0.2		0.1	0.1	0.11	U	2.5	0.5	0.1	
RMS-SD45	B1.11637J	Sediment sample from same location as RMS-SW45; red clay with some silt and fine sand	2.0	0.4	0.1		10	1	0.1		2.0	0.4	0.1		0.1	0.1	0.15	U	1.8	0.4	0.2	
UCP-SD35	B1.11638K	Sediment sample from same location as UCP-SW35; red mud in mud flat sediments	0.9	0.3	0.1		3	1	0.1		3.3	0.6	0.1		0.2	0.1	0.08		2.7	0.5	0.1	
UCP-SD37	B1.11639L	Sediment sample from same location as UCP-SW37; red mud, heavy silting	2.2	0.5	0.1		7	1	0.1		2.8	0.5	0.1		0.2	0.1	0.09		2.8	0.5	0.1	
UCP-SD39	B1.11640D	Sediment sample from same location as UCP-SW39; red clay with some fine sand, soft	2.7	0.5	0.1		10	1	0.1		2.9	0.6	0.1		0.2	0.1	0.10		2.5	0.5	0.08	
RMA-WST02B	B1.11641E	Subsurface waste sample from Red Mud Disposal Area A; depth = 2-4'	3.2	0.5	0.1		12	1	0.1		3.3	0.6	0.1		0.3	0.2	0.16		2.9	0.6	0.09	
RMA-WST04B	B1.11642F	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	2.5	0.5	0.1		10	1	0.1		2.2	0.5	0.1		0.1	0.1	0.18	U	2.3	0.5	0.1	
RMA-WST05A	B1.11643G	Surface waste sample from Red Mud Disposal Area A	4.2	0.6	0.1		15	1	0.1		4.0	0.7	0.1		0.2	0.2	0.11		4.1	0.7	0.1	
RMA-WST05B	B1.11644H	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	2.9	0.6	0.1		13	1	0.1		3.0	0.6	0.2		0.1	0.1	0.10	U	3.4	0.6	0.1	
RMA-WST06B	B1.11645J	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	3.5	0.8	0.3		12	2	0.2		1.5	0.5	0.2		0.1	0.2	0.17	U	1.5	0.5	0.2	
RMA-WST07B	B1.11646K	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	6	1	0.2		16	2	0.2		6.5	1.1	0.2		0.2	0.2	0.18		5.9	0.1	0.2	
RMA-WST08A	B1.11647L	Surface waste sample from Red Mud Disposal Area A	3.0	0.6	0.1		12	1	0.2		2.7	0.5	0.1		0.1	0.1	0.15	U	2.8	0.5	0.08	
RMA-WST10A	B1.11648M	Surface waste sample from Red Mud Disposal Area A	2.4	0.5	0.1		11	1	0.1		1.9	0.4	0.1		0.2	0.2	0.18		2.2	0.5	0.1	
RMA-WST11B	B1.11649N	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	3.8	0.6	0.1		13	1	0.1		2.7	0.5	0.2		0.1	0.1	0.10		3.1	0.6	0.1	
RMA-WST11C	B1.11650F	Duplicate of RMA-WST11A	3.0	0.6	0.1		13	1	0.2		3.2	0.6	0.1		0.1	0.1	0.10		3.4	0.6	0.2	
RMA-WST19B	B1.11651G	Subsurface waste sample from Red Mud Disposal Area A; depth = 5'	2.2	0.4	0.1		8	1	0.1		2.9	0.5	0.1		0.2	0.1	0.08		2.2	0.4	0.09	
RMB-WST22A	B1.11652H	Surface waste sample from Red Mud Disposal Area B; sandy red mud	6.6	0.9	0.1		12	1	0.1		4.4	0.7	0.1		0.3	0.2	0.08		4.3	0.7	0.09	

Table 41: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMB-WST22B	B1.11653J	Subsurface waste sample from Red Mud Disposal Area B; sandy red mud; depth = 10'	3.9	0.7	0.2		7	1	0.1		3.8	0.7	0.2		0.2	0.1	0.12		3.5	0.7	0.1	
RMB-WST23A	B1.11654K	Surface waste sample from Red Mud Disposal Area B	3.0	0.5	0.1		10	1	0.1		3.0	0.5	0.1		0.2	0.1	0.09	J	2.8	0.5	0.1	
RMB-WST23B	B1.11655L	Subsurface waste sample from Red Mud Disposal Area B; granular material; depth = 7.5'	3.9	0.7	0.2	J	7	1	0.1	J	4.2	0.7	0.1		0.2	0.1	0.09	J	3.9	0.6	0.07	
RMB-WST23C	B1.11656M	Duplicate of RMB-WST23B	3.4	0.6	0.1		8	1	0.1		3.9	0.7	0.1		0.2	0.1	0.07	J	3.8	0.6	0.08	
RMB-WST28B	B1.11657N	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	7.2	0.9	0.1		11	1	0.1		6.3	1.0	0.1		0.5	0.2	0.08	J	6	1	0.09	
RMB-WST29B	B1.11658P	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5'	5.6	0.8	0.1		10	1	0.1		6.3	1.0	0.1		0.4	0.2	0.07	J	7	1	0.08	
RMB-WST34B	B1.11659Q	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5-4'	3.9	0.6	0.1		9	1	0.1		3.7	0.6	0.1		0.3	0.2	0.07	J	3.7	0.6	0.08	
RMB-WST37A	B1.11660H	Surface waste sample from Red Mud Disposal Area B	3.6	0.5	0.1		10	1	0.1		3.6	0.6	0.1		0.2	0.1	0.06	J	3.8	0.6	0.07	
RMB-WST37B	B1.11661J	Subsurface waste sample from Red Mud Disposal Area B; depth = 8'	4.8	0.7	0.1		15	2	0.1		4.5	0.7	0.1		0.2	0.1	0.07	J	3.7	0.6	0.06	
FBS-WST43A	B1.11720C	Surface waste red mud sample from drainage channel behind Former Bauxite Storage shed	0.9	0.2	0.1		4	1	0.1		1.1	0.3	0.1		0.1	0.1	0.09	J	0.9	0.2	0.05	
RMA-SD57	B1.11721D	*Sample from red mud depositional area south of Area A*	1.8	0.3	0.1		10	1	0.1		1.2	0.3	0.1		0.1	0.1	0.11	U	1.2	0.3	0.07	
RMA-SD58	B1.11722E	*Sample from red mud depositional area south of Area A*	1.5	0.3	0.1		6	1	0.1		1.2	0.3	0.1		0.1	0.1	0.08	U	1.3	0.3	0.09	
RMA-SD59	B1.11723F	*Sample from red mud depositional area south of Area A*	1.7	0.3	0.1		9	1	0.1		1.3	0.3	0.05		0.1	0.1	0.07	J	1.4	0.3	0.06	
RMA-SD60	B1.11724G	*Sample from red mud depositional area south of Area A*	1.8	0.4	0.1		8	1	0.1		1.5	0.3	0.1		0.2	0.1	0.06	J	1.5	0.3	0.06	
RMA-SD61	B1.11725H	*Sample from red mud depositional area south of Area A*	0.6	0.2	0.1		4	1	0.1		0.5	0.2	0.1		0.1	0.1	0.06	J	0.5	0.2	0.06	
RMA-SD62	B1.11726J	*Sample from red mud depositional area south of Area A*	1.4	0.3	0.1		8	1	0.1		1.3	0.3	0.1		0.1	0.1	0.07	J	1.2	0.3	0.08	
RMA-SD63	B1.11727K	*Duplicate of RMA-SD62*	1.4	0.3	0.1		9	1	0.1		1.5	0.3	0.1		0.1	0.1	0.06	U	1.3	0.3	0.07	
RMA-SD63	B1.11727K (DUP)	*Lab duplicate of RMA-SD63*	1.2	0.3	0.1		8	1	0.1		1.3	0.3	0.1		0.1	0.1	0.06	J	1.1	0.3	0.07	
RMA-WST06B(2)	B1.11728L	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	2.9	0.5	0.1		11	1	0.1		1.8	0.4	0.1		0.1	0.1	0.06	J	2.1	0.4	0.05	
RMA-WST08B	B1.11729M	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	3.1	0.5	0.1		12	1	0.1		2.7	0.5	0.1		0.2	0.1	0.11	J	2.3	0.5	0.06	
RMA-WST18B	B1.11730E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	3.4	0.6	0.1		15	2	1		3.5	0.6	0.1		0.2	0.1	0.11	J	3.0	0.5	0.08	

J - reported value is estimated
U - isotope was not detected above the noted MDC
(DUP) - Laboratory Duplicate

Table 42: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
ADP-SD49	B1.11619G	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	0.5	0.7	1.2	0.6	1.0	1.6	0.6	0.0	0.5
ADP-WST41A	B1.11405U	Surface waste sample from Ash Disposal area	1.5	0.6	2.1	1.1	0.6	1.6	1.2	0.1	1.2
ADP-WST41B	B1.11406V	Subsurface waste sample from Ash Disposal area; depth = 4'	0.6	0.2	0.8	0.3	0.3	0.6	0.4	0.0	0.3
ADP-WST41C	B1.11407W	Field duplicate of ADP-WST41B	0.4	0.4	0.8	0.5	0.4	0.9	0.5	0.0	0.3
ADP-WST41C	B1.11407W (DUP)	Lab duplicate of ADP-WST41C	0.7	0.3	1.1	NA	NA	NA	0.6	0.0	0.5
ADP-WST42A	B1.11408X	Surface waste sample from Ash Disposal area	1.9	0.7	2.5	1.3	0.6	1.9	1.3	0.0	1.2
ADP-WST42B	B1.11409Y	Subsurface waste sample from Ash Disposal area; depth = 4'	1.3	0.4	1.6	1.0	0.5	1.4	0.9	0.0	0.9
FBS-WST43A	B1.11720C	Surface waste red mud sample from drainage channel behind Former Bauxite Storage shed	0.9	3.9	4.8	0.7	4.4	5.1	0.8	0.1	0.6
FBS-WST44A	B1.11410Q	Surface waste red mud sample from pile in Former Bauxite Storage shed	0.6	4.9	5.4	0.8	5.7	6.6	0.6	0.0	0.4
FBS-WST44A	B1.11410Q (DUP)	Lab duplicate of FBS-WST44A	NA	NA	NA	0.8	5.7	6.5	NA	NA	NA
FBS-WST45A	B1.11411R	Surface waste red mud sample from pile in Former Bauxite Storage shed	2.3	10.0	12.4	1.8	10.1	11.9	2.3	0.0	2.2
FBS-WST46A	B1.11412T	Surface waste red mud sample from pile in Former Bauxite Storage shed	1.5	7.2	8.6	1.1	7.2	8.3	1.0	0.0	1.0
LCP-SD33	B1.11631C	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	0.3	0.1	0.4	-0.2	-0.1	-0.3	3.5	0.2	3.1
RMA-SD57	B1.11721D	*Sample from red mud depositional area south of Area A*	1.8	9.3	11.1	2.4	10.9	13.2	1.0	0.1	1.0
RMA-SD58	B1.11722E	*Sample from red mud depositional area south of Area A*	1.5	6.1	7.6	1.7	7.2	8.9	1.0	0.0	1.1
RMA-SD59	B1.11723F	*Sample from red mud depositional area south of Area A*	1.2	8.4	9.6	2.8	11.1	13.8	1.1	0.1	1.2
RMA-SD60	B1.11724G	*Sample from red mud depositional area south of Area A*	1.8	7.7	9.5	2.3	10.5	12.7	1.3	0.1	1.3
RMA-SD61	B1.11725H	*Sample from red mud depositional area south of Area A*	0.6	3.5	4.1	0.5	4.4	4.9	0.3	0.1	0.2
RMA-SD61	B1.11725H (DUP)	*Lab duplicate of RMA-SD61*	NA	NA	NA	0.5	4.5	5.0	NA	NA	NA
RMA-SD62	B1.11726J	*Sample from red mud depositional area south of Area A*	1.4	7.9	9.3	2.0	10.0	12.0	1.1	0.1	0.9

Table 42: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
RMA-SD63	B1.11727K	*Field duplicate of RMA-SD62*	0.9	9.1	10.0	1.9	8.9	10.7	1.3	0.0	1.0
RMA-SD63	B1.11727K (DUP)	*Lab duplicate of RMA-SD63*	1.2	7.8	9.0	NA	NA	NA	1.1	0.1	0.8
RMA-WST01A	B1.11274B	Surface waste sample from Red Mud Disposal Area A	0.5	8.4	8.9	1.3	9.5	10.9	1.0	0.0	0.8
RMA-WST01B	B1.11425Y	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	1.5	4.8	6.2	2.7	11.1	13.8	0.9	0.1	1.1
RMA-WST01C	B1.11426Z	Duplicate of RMA-WST01B	2.6	10.2	12.8	2.7	10.7	13.3	2.5	0.1	2.2
RMA-WST02A	B1.11275C	Surface waste sample from Red Mud Disposal Area A	3.4	13.2	16.7	2.9	13.2	16.1	2.7	0.1	3.0
RMA-WST02A	B1.11275C (DUP)	Lab duplicate of WST02A	3.5	12.7	16.3	NA	NA	NA	2.6	0.1	3.0
RMA-WST02B	B1.11641E	Subsurface waste sample from Red Mud Disposal Area A; depth = 2-4'	2.7	11.9	14.7	3.1	14.3	17.3	3.1	0.2	2.6
RMA-WST03A	B1.11276D	Surface waste sample from Red Mud Disposal Area A	3.3	13.7	17.1	3.1	14.0	17.1	3.7	0.2	3.7
RMA-WST03B	B1.11427A	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	3.4	12.3	15.7	3.1	14.5	17.6	2.0	0.1	2.4
RMA-WST04A	B1.11277E	Surface waste sample from Red Mud Disposal Area A	2.1	10.9	13.0	2.4	11.1	13.4	2.1	0.2	2.5
RMA-WST04B	B1.11642F	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	2.5	9.6	12.0	2.0	11.0	12.9	2.0	0.1	2.0
RMA-WST05A	B1.11643G	Surface waste sample from Red Mud Disposal Area A	4.2	14.3	18.5	3.6	15.6	19.1	3.7	0.2	3.9
RMA-WST05B	B1.11644H	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	2.9	12.4	15.4	3.4	16.0	19.4	2.8	0.1	3.2
RMA-WST06A	B1.11278F	Surface waste sample from Red Mud Disposal Area A	3.9	12.0	15.9	3.5	12.2	15.7	4.1	0.3	3.3
RMA-WST06B	B1.11645J	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	3.1	11.5	14.6	4.2	14.6	18.7	1.2	0.1	1.3
RMA-WST06B(2)	B1.11728L	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	2.9	10.5	13.4	3.7	12.8	16.4	1.5	0.1	1.9
RMA-WST07A	B1.11279G	Surface waste sample from Red Mud Disposal Area A	3.2	12.3	15.6	3.0	13.4	16.4	4.7	0.2	3.6
RMA-WST07B	B1.11646K	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	5.8	15.7	21.5	6.3	17.6	23.9	6.3	0.2	5.6
RMA-WST08A	B1.11647L	Surface waste sample from Red Mud Disposal Area A	3.0	11.7	14.8	2.4	11.8	14.2	2.5	0.1	2.6
RMA-WST08B	B1.11729M	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	3.1	11.5	14.7	3.4	15.4	18.8	2.5	0.2	2.0

Table 42: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
RMA-WST09A	B1.11280Z	Surface waste sample from Red Mud Disposal Area A	2.0	9.3	11.2	2.3	12.3	14.6	1.9	0.1	2.0
RMA-WST09A	B1.11280Z (DUP)	Lab duplicate of RMA-WST09A	NA	NA	NA	2.3	12.2	14.4	NA	NA	NA
RMA-WST09B	B1.11281A	Subsurface waste sample from Red Mud Disposal Area A; depth = 7'	3.0	13.2	16.3	3.8	15.6	19.4	3.2	0.1	3.2
RMA-WST10A	B1.11648M	Surface waste sample from Red Mud Disposal Area A	2.4	10.1	12.5	2.0	10.7	12.6	1.7	0.2	2.0
RMA-WST10B	B1.11428B	Subsurface waste sample from Red Mud Disposal Area A; depth = 5-6'	2.8	15.2	18.0	2.6	16.0	18.6	2.4	0.1	2.2
RMA-WST11A	B1.11282B	Surface waste sample from Red Mud Disposal Area A	3.6	13.1	16.8	3.5	14.3	17.8	3.3	0.2	2.8
RMA-WST11B	B1.11649N	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	3.4	12.7	16.1	3.1	15.2	18.3	2.4	0.1	2.9
RMA-WST11C	B1.11650F	Duplicate of RMA-WST11A	3.0	12.4	15.4	3.6	15.6	19.1	3.0	0.1	3.2
RMA-WST12A	B1.11283C	Surface waste sample from Red Mud Disposal Area A	3.3	15.7	19.0	3.2	18.8	22.0	2.5	0.1	2.4
RMA-WST12B	B1.11429C	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	4.0	21.4	25.4	3.9	23.3	27.1	3.3	0.2	2.8
RMA-WST13A	B1.11632D	Surface waste sample from Red Mud Disposal Area A	3.6	12.6	16.3	2.8	12.2	14.9	2.6	0.1	2.5
RMA-WST13B	B1.11633E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	4.5	12.1	16.6	4.3	13.9	18.1	3.5	0.2	3.4
RMA-WST14A	B1.11284D	Surface waste sample from Red Mud Disposal Area A	1.8	8.7	10.5	2.5	11.1	13.6	1.2	0.1	1.2
RMA-WST14A	B1.11284D (DUP)	Lab duplicate of RMA-WST14A	1.8	9.0	10.8	NA	NA	NA	1.4	0.1	1.1
RMA-WST14B	B1.11285E	Subsurface waste sample from Red Mud Disposal Area A; depth = 3.5'	2.3	10.1	12.4	1.9	10.7	12.6	1.4	0.0	1.7
RMA-WST15A	B1.11286F	Surface waste sample from Red Mud Disposal Area A	1.9	8.8	10.8	2.2	10.6	12.8	1.1	0.1	1.2
RMA-WST16A	B1.11287G	Surface waste sample from Red Mud Disposal Area A	2.3	9.3	11.6	2.8	12.4	15.2	1.4	0.0	1.8
RMA-WST16B	B1.11288H	Subsurface waste sample from Red Mud Disposal Area A; depth = 7.5'	1.9	10.4	12.3	2.8	12.4	15.2	1.6	0.1	2.0
RMA-WST17A	B1.11289J	Surface waste sample from Red Mud Disposal Area A	2.9	10.2	13.1	3.0	13.0	16.0	2.6	0.1	2.3
RMA-WST17B	B1.11290B	Subsurface waste sample from Red Mud Disposal Area A; depth = 3'	2.7	8.4	11.0	2.7	11.4	14.1	1.3	0.1	1.9

Table 42: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
RMA-WST18A	B1.11291C	Surface waste sample from Red Mud Disposal Area A	3.8	13.5	17.4	3.6	14.9	18.5	5.9	0.3	5.5
RMA-WST18B	B1.11730E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	2.9	14.5	17.4	3.4	16.4	19.8	3.2	0.2	2.7
RMA-WST19A	B1.11292D	Surface waste sample from Red Mud Disposal Area A	3.3	12.2	15.6	3.2	14.3	17.4	2.8	0.2	2.5
RMA-WST19B	B1.11651G	Subsurface waste sample from Red Mud Disposal Area A; depth = 5'	2.2	7.6	9.8	2.7	12.0	14.6	2.7	0.2	2.0
RMA-WST20A	B1.11293E	Surface waste sample from Red Mud Disposal Area A	3.6	12.0	15.7	3.0	14.5	17.5	4.0	0.1	3.5
RMA-WST20B	B1.11634F	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	2.0	11.4	13.5	2.5	12.6	15.1	1.9	0.0	1.4
RMA-WST20B	B1.11634F (DUP)	Lab duplicate of RMA-WST20B	2.5	10.3	12.8	NA	NA	NA	2.0	0.1	1.9
RMA-WSTR01A	B1.11635G	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	3.0	14.0	17.0	4.4	16.5	20.8	1.9	0.2	1.4
RMA-WSTR02A	B1.11636H	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	3.0	13.2	16.2	3.3	14.1	17.3	1.9	0.0	2.2
RMB-WST22A	B1.11652H	Surface waste sample from Red Mud Disposal Area B; sandy red mud	6.6	11.3	17.9	7.1	13.5	20.6	4.2	0.3	4.1
RMB-WST22B	B1.11653J	Subsurface waste sample from Red Mud Disposal Area B; sandy red mud; depth = 10'	3.4	6.7	10.1	4.2	8.4	12.6	3.6	0.1	3.3
RMB-WST23A	B1.11654K	Surface waste sample from Red Mud Disposal Area B	3.0	10.0	13.0	4.5	13.0	17.5	2.8	0.2	2.6
RMB-WST23B	B1.11655L	Subsurface waste sample from Red Mud Disposal Area B; granular material; depth = 7.5'	3.9	6.7	10.7	4.5	9.3	13.8	4.0	0.2	3.7
RMB-WST23C	B1.11656M	Duplicate of RMB-WST23B	3.4	7.6	11.0	4.1	8.4	12.5	3.6	0.2	3.5
RMB-WST24A	B1.11413U	Surface waste sample from Red Mud Disposal Area B	3.2	7.9	11.1	3.2	8.5	11.7	1.9	0.0	1.6
RMB-WST28A	B1.11414V	Surface waste sample from Red Mud Disposal Area B	4.7	20.4	25.1	5.0	23.6	28.5	2.1	0.2	2.5

Table 42: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
RMB-WST28B	B1.11657N	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	6.7	11.0	17.8	6.8	14.0	20.8	6.0	0.4	6.2
RMB-WST29A	B1.11415W	Surface waste sample from Red Mud Disposal Area B	3.1	6.9	10.0	2.6	7.4	10.0	2.0	0.0	1.4
RMB-WST29B	B1.11658P	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5'	5.6	10.0	15.6	5.6	12.3	17.8	6.1	0.4	6.3
RMB-WST30A	B1.11416X	Surface waste sample from Red Mud Disposal Area B	4.5	16.9	21.4	4.5	21.0	25.5	3.0	0.1	3.1
RMB-WST30B	B1.11417Y	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	9.3	13.5	22.8	8.8	16.1	24.9	4.6	0.3	4.6
RMB-WST32A	B1.11418Z	Surface waste sample from Red Mud Disposal Area B	1.7	5.4	7.1	2.0	6.4	8.4	3.0	0.2	2.8
RMB-WST34A	B1.11419A	Surface waste sample from Red Mud Disposal Area B	3.0	8.3	11.3	3.7	9.2	12.9	1.5	0.1	0.9
RMB-WST34B	B1.11659Q	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5-4'	3.9	8.6	12.6	4.7	13.0	17.6	3.5	0.3	3.5
RMB-WST36A	B1.11420T	Surface waste sample from Red Mud Disposal Area B	5.2	18.4	23.6	4.5	21.4	25.8	2.7	0.2	2.5
RMB-WST37A	B1.11660H	Surface waste sample from Red Mud Disposal Area B	3.6	9.6	13.2	4.7	11.9	16.6	3.4	0.2	3.6
RMB-WST37A	B1.11660H (DUP)	Lab duplicate of RMB-WST37A	NA	NA	NA	4.9	11.9	16.8	NA	NA	NA
RMB-WST37B	B1.11661J	Subsurface waste sample from Red Mud Disposal Area B; depth = 8'	4.4	14.5	18.9	4.3	15.8	20.0	4.2	0.2	3.5
RMB-WST38A	B1.11421U	Surface waste sample from Red Mud Disposal Area B	4.6	20.2	24.8	4.6	24.2	28.8	3.1	0.1	3.0
RMB-WST39A	B1.11422V	Surface waste sample from Red Mud Disposal Area B	3.9	10.8	14.8	4.2	11.8	16.0	2.6	0.1	2.9
RMB-WST39B	B1.11423W	Subsurface waste sample from Red Mud Disposal Area B; depth = 3'	5.5	15.3	20.9	4.7	19.1	23.8	5.2	0.2	4.6
RMB-WST40A	B1.11424X	Surface waste sample from Red Mud Disposal Area B; red sand area	1.1	9.8	10.9	0.6	9.0	9.7	0.8	0.0	0.6
RMS-SD45	B1.11637J	Sediment sample from same location as RMS-SW45; red clay with some silt and fine sand	1.6	9.7	11.3	2.9	12.1	15.0	1.8	0.1	1.6
UCP-SD35	B1.11638K	Sediment sample from same location as UCP-SW35; red mud in mud flat sediments	0.9	2.4	3.4	0.2	2.0	2.2	3.1	0.1	2.5

Table 42: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
UCP-SD37	B1.11639L	Sediment sample from same location as UCP-SW37; red mud, heavy silting	2.2	6.6	8.7	1.4	7.0	8.5	2.5	0.1	2.6
UCP-SD39	B1.11640D	Sediment sample from same location as UCP-SW39; red clay with some fine sand, soft	2.7	9.5	12.2	2.8	12.5	15.2	2.6	0.2	2.3
UCP-SD39	B1.11640D (DUP)	Lab duplicate of UCP-SD39	NA	NA	NA	2.8	12.8	15.6	NA	NA	NA

(a) Isoptoic analyses results as reported in Table 5-9B.
(b) Gamma spectroscopy analyses Results as reported in Table 5-9A.
(DUP) - Laboratory Duplicate

Table 43: Radiological Results of Surface Water and Ground-water Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Ra-226				Ra-228				Sum of Radium[a]	U-234				U-235				U-238				Tot-U pCi/L[b]	Tot-U µg/L[c]	Th-230				Th-232			
			Result (pCi/L)	2 sigma	MDC	Val. Flag	Result (pCi/L)	2 sigma	MDC	Val. Flag		Result (pCi/L)	2 sigma	MDC	Val. Flag	Result (pCi/L)	2 sigma	MDC	Val. Flag	Result (pCi/L)	2 sigma	MDC	Val. Flag			Result (pCi/L)	2 sigma	MDC	Val. Flag	Result (pCi/L)	2 sigma	MDC	Val. Flag
RMA-SW57	B1.11662K	Storm water runoff from culvert at Red Mud Disposal Area A	6	4	2		21	5	6	J	27	5.1	1.0	0.2		0.1	0.2	0.2	U	3.5	0.8	0.3		8.73	5.85	0.54	0.29	0.20		3.40	0.71	0.20	
RMA-SW57	B1.11662K (DUP)	Lab duplicate of RMA-SW57	6	3	2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RMS-SW45	B1.11663L	Surface water sample from Settling Pond	1.4	0.6	0.4		16	5	6	J	18	9	1	0.2		0.5	0.3	0.3		5	1	0.2		15.31	10.25	0.54	0.30	0.21		1.66	0.51	0.16	
SW-RMA-WST12	B1.11665N	Water sample from ponded water at waste sample location RMA-WST12	0.5	0.4	0.3		5	2	3	J	6	5	1	0.3		0.2	0.2	0.2	U	2.5	0.6	0.2		8.08	5.41	0.10	0.14	0.15	U	0.31	0.22	0.15	
UCP-SW35	B1.11666P	Surface water sample from Upper Cooling Pond	0.2	0.1	0.1		1.0	0.5	0.7	J	1.2	1.2	0.4	0.2		0.1	0.1	0.2	U	1.0	0.4	0.1		2.21	1.48	0.13	0.14	0.13	U	0.11	0.14	0.18	U
UCP-SW35	B1.11666P (DUP)	Lab duplicate of UCP-SW35	0.2	0.1	0.1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
UCP-SW39	B1.11667Q	Surface water sample from Upper Cooling Pond	0.7	0.4	0.3		10	4	5	J	11	1.9	0.6	0.3		0.3	0.3	0.2		1.4	0.5	0.2		3.53	2.37	0.4	0.3	0.3		1.8	0.6	0.2	
SCA-GW01	B1.11664M	Unfiltered ground water sample from monitoring well VW37	0.1	0.1	0.1		0	1	1	U	0	1.1	0.4	0.2	J	0.1	0.2	0.3		0.6	0.3	0.2		1.80	1.21	-0.02	0.15	0.39	U	0.22	0.31	0.44	U
SCA-GW05	B1.11668R	Unfiltered ground water sample from monitoring well GM-13D	0.3	0.3	0.3	U	0.6	0.4	0.7	U	0.9	0.5	0.3	0.2	J	0.1	0.1	0.2	U	0.4	0.2	0.2		1.00	0.67	0.2	0.2	0.1		-0.02	0.07	0.20	U
SCA-GW06	B1.11669T	Unfiltered ground water sample from monitoring well GM-22	0.3	0.4	0.6	U	0.5	0.8	1.4	U	0.8	0.9	0.4	0.1	J	0.1	0.1	0.2	U	0.6	0.3	0.2		1.55	1.04	0.1	0.1	0.1	U	0.03	0.09	0.13	U
SCA-GW08	B1.11670K	Unfiltered ground water sample from monitoring well GM-14	0.3	0.1	0.1		0.8	0.5	0.8	U	1.1	0.5	0.3	0.2	J	0.1	0.2	0.2	U	1.1	0.4	0.2		1.71	1.15	-0.01	0.08	0.21	U	-0.01	0.08	0.21	U
SCA-GW10	B1.11671L	Unfiltered ground water sample from monitoring well GM-18	0.3	0.4	0.6	U	1	2	3	U	0.9	0.9	0.4	0.1	J	0.3	0.2	0.2		1.3	0.4	0.2		2.42	1.62	0.02	0.09	0.17	U	0.02	0.09	0.17	U
WST-RIN01	B1.11672M	Unfiltered ground water sample from monitoring well VW37	0.0	0.1	0.1	U	0	1	1	U	0.2	0.2	0.2	0.1	J	0.3	0.2	0.2		0.1	0.1	0.2	U	0.57	0.38	0.0	0.1	0.2	U	0.01	0.09	0.20	U
WST-RIN01	B1.11672M (DUP)	Lab duplicate of WST-RIN01	NA	NA	NA	NA	-0.1	0.5	0.9	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SCA-GW02	B1.11673N	Unfiltered ground water sample from monitoring well G-9	0.1	0.1	0.1	U	0.8	0.5	0.8	U	0.9	0.1	0.1	0.1	U	0.1	0.2	0.3	U	0.3	0.2	0.2		0.56	0.38	0.1	0.1	0.18	U	0.05	0.11	0.18	U
SCA-GW07	B1.11674P	Unfiltered ground water sample from monitoring well VW25	0.2	0.1	0.1		0.7	0.5	0.8	U	1.0	1.6	0.4	0.3		0.3	0.2	0.3	U	0.1	0.4	0.2		1.95	1.31	0.1	0.1	0.13	U	0.00	0.06	0.13	U
SCA-GW07	B1.11674P(DUP)	Lab duplicate of SCA-GW07	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4	0.4	0.2		0.0	0.1	0.2	U	1.4	0.4	0.2		2.79	1.87	0.03	0.08	0.12	U	-0.03	0.07	0.20	U

NA - Not Applicable U - Isotope was not detected above the noted MDC J - reported value is estimated

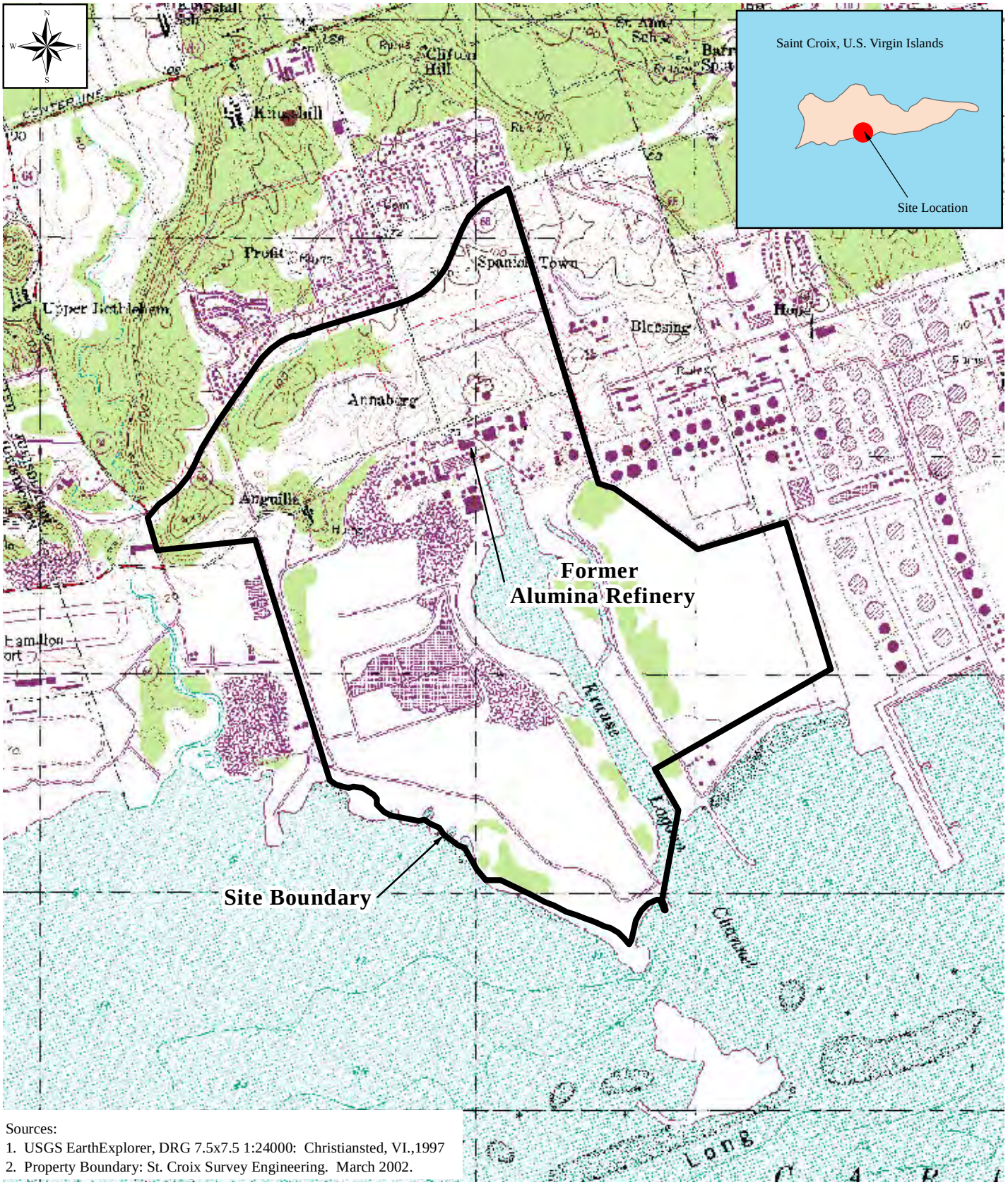
(DUP) - Laboratory Duplicate

(a) Sum of radium 226 and radium 228.

(b) Sum of uranium 234, uranium 235 and uranium 238.

(c) Activity to mass conversion factors range from 0.67 to 1.5 pCi/µg (USEPA 2000. National Primary Drinking Water Regulations; Final Rule 65 FR 236; December 7, 2000) and the major challenge is to determine which factor is most appropriate to use to calculate an exposure point concentration for compliance monitoring or to use in a human health risk assessment. Ideally the activity to mass ratio should be calculated for each water supply but if this is not possible, there is a health protective approach to evaluate compliance with the regulatory level. A two-tiered approach can be used to initially screen for compliance with the regulatory level. The first tier involves using a conservative activity to mass ratio of 0.67 pCi/µg to convert activity units in pCi to mass units in µg. The second tier would be to determine the actual activity to mass ratio for a particular water supply. For our screening purpose the first tier was used. If concentrations are less than 30 µg/L, then the uranium MCL has been met and no need to go to the second tier.

Figures



Sources:
1. USGS EarthExplorer, DRG 7.5x7.5 1:24000: Christiansted, VI.,1997
2. Property Boundary: St. Croix Survey Engineering. March 2002.

SCALE:
2,000 1,000 0 2,000
Graphic Scale In Feet

TITLE:
FIGURE 1 - SITE LOCATION
ST. CROIX ALUMINA (RENAISSANCE PARK)
ST. CROIX, VI

PROJECT:
ST. CROIX ALUMINA (RENAISSANCE PARK)

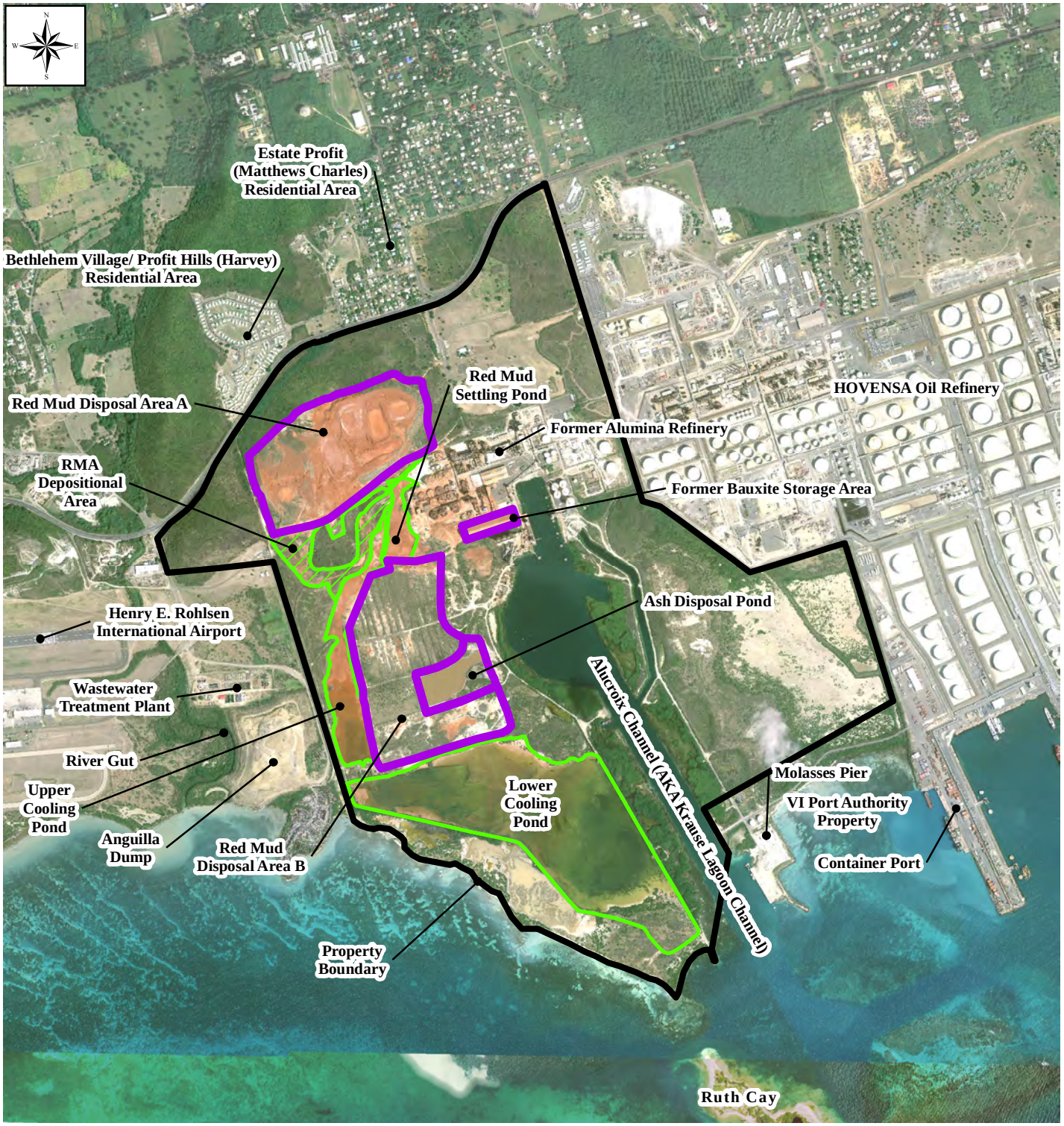
CLIENT NAME:
EPA

WESTON SOLUTIONS

DATE:
MAY 2012

FIGURE #:
1

P:\SAT2\St. Croix Alumina (1455)\MXD\2012_02_HRS\10905_SCA_Site_Map.mxd



Sources:

1. Imagery Source: United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, Photo Date November 2006; Published February 17, 2008. http://edcsns17.cr.usgs.gov/EarthExplorer/
2. Property Boundary: St. Croix Survey Engineering. March 2002.
3. Weston Solutions, Inc. Field Logbooks, St. Croix Alumina, TDD # S05-0013-1104-030. June-September 2011.

LEGEND:

0 500 1,000 2,000 3,000 4,000

Graphic Scale In Feet

TITLE:

FIGURE 2 - SITE FEATURES MAP
ST. CROIX ALUMINA (RENAISSANCE PARK)
ST. CROIX, VI

PROJECT: ST CROIX ALUMINA (RENAISSANCE PARK)

CLIENT NAME: EPA

WESTON SOLUTIONS

DATE: MAY 2012

FIGURE #: 2

P:\SAT2\St. Croix Alumina (1455)\MXD\2012_02_HRS\10906_SCA_TAerial_Map.mxd

Estate Profit
(Matthews Charles)
Residential Area

Bethlehem Village /
Profit Hills (Harvey)
Residential Area

Diageo Rum Distillery

Main Gate

HOVENSA Oil Refinery

Power Plant

Source 1
Red Mud Disposal Area A

Administration
Building

Ethanol Tanks

Source 4
Former Bauxite Storage Area

Diageo Molasses
Tanks

Upland Area
Ruins

Red Mud
Settling Pond

Alucroix Channel

West
Ditch

Source 2
Red Mud Disposal Area B

Source 3
Ash Disposal Pond

Wastewater
Treatment Plant

Upper
Cooling Pond

Municipal
Landfill

Lower Cooling Pond

Legend

- Surface Water / Sheet Flow Direction
- Vegetation
- Drainage Pathway
- West Ditch
- RMA Depositional Area
- Source Areas
- Groundwater Flow Direction

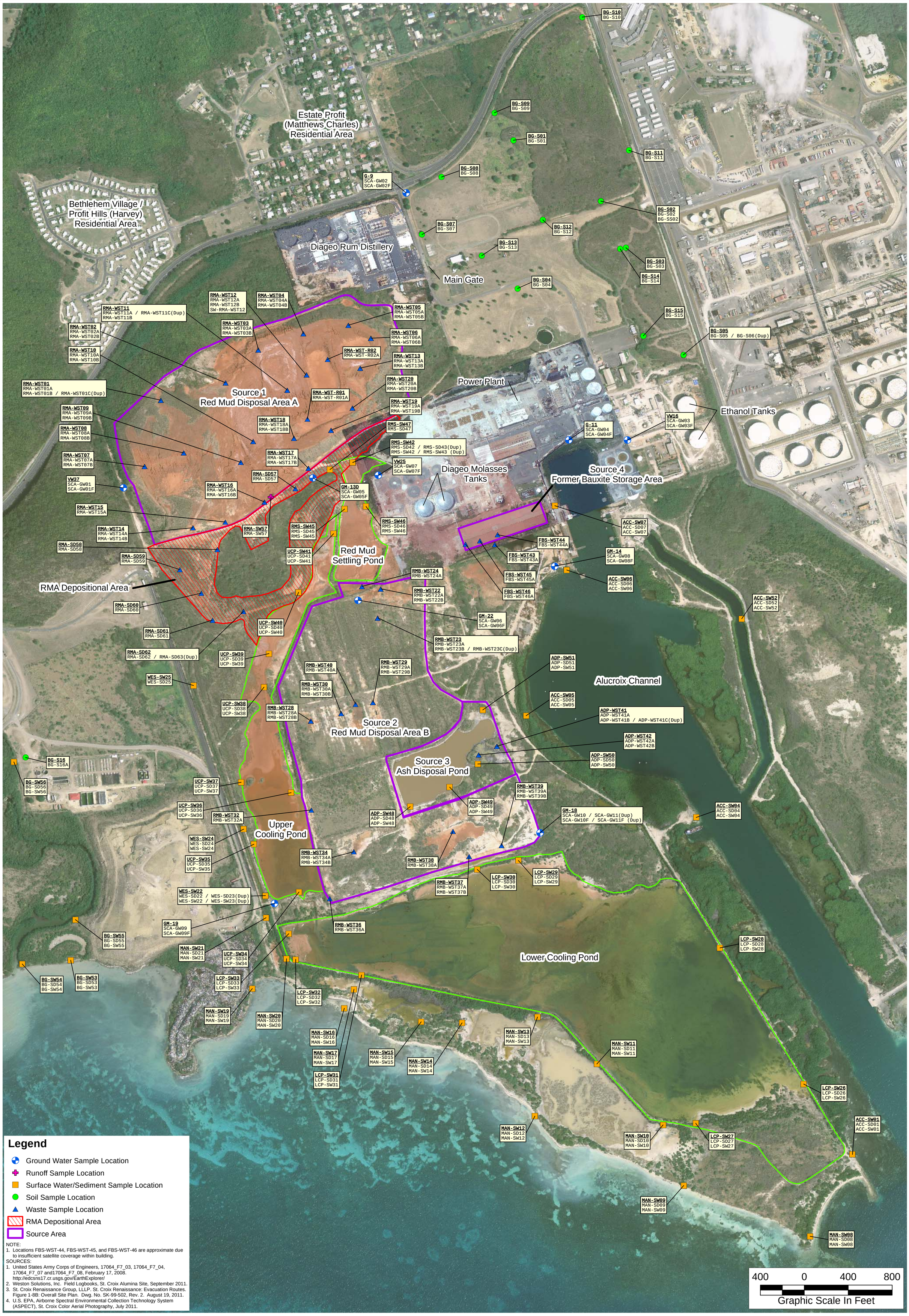
SOURCES:
1. United States Army Corps of Engineers, 17064_F7_07 and17064_F7_08, February 17, 2008. http://edcsns17.cr.usgs.gov/EarthExplorer/
2. Weston Solutions, Inc. Field Logbook, Site Reconnaissance, St. Croix Alumina, TDD # S05-0013-1104-030. June 1-2, 2011.
3. U.S Department of the Interior, Fish and Wildlife Service, St. Petersburg, FL. National Wetlands Inventory, http://www.nwi.fws.gov. Date unknown; downloaded December 2008.

400 200 0 400 800
Graphic Scale In Feet

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N W E S

REPORT DATE: MAY 2012	PROJECT MANAGER: G. GILLILAND	CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY	DRAWING TITLE: FIGURE 3 - SITE LAYOUT MAP ST. CROIX ALUMINA (RENAISSANCE PARK) ST. CROIX, VI
DRAWING: 10788_SiteLayout_Features.mxd PATH: P:\SAT2\St. Croix Alumina (1455)\MXD	CHECKED BY: G. GILLILAND		
REVISION No.: 0	CONTRACT No.: EP-S5-06-04	PROJECT NAME: ST CROIX ALUMINA SITE	
WORK ORDER No.: 20405.012.013.1455.00	DRAWN/MODIFIED BY: J. TORRES DATE CREATED: 11/30/2011		FIGURE: 3 / SCALE: 1" = 350' / DATE: 5/16/2012



Legend

- Ground Water Sample Location
- Runoff Sample Location
- Surface Water/Sediment Sample Location
- Soil Sample Location
- Waste Sample Location
- RMA Depositional Area
- Source Area

NOTE:
1. Locations FBS-WST-44, FBS-WST-45, and FBS-WST-46 are approximate due to insufficient satellite coverage within building.

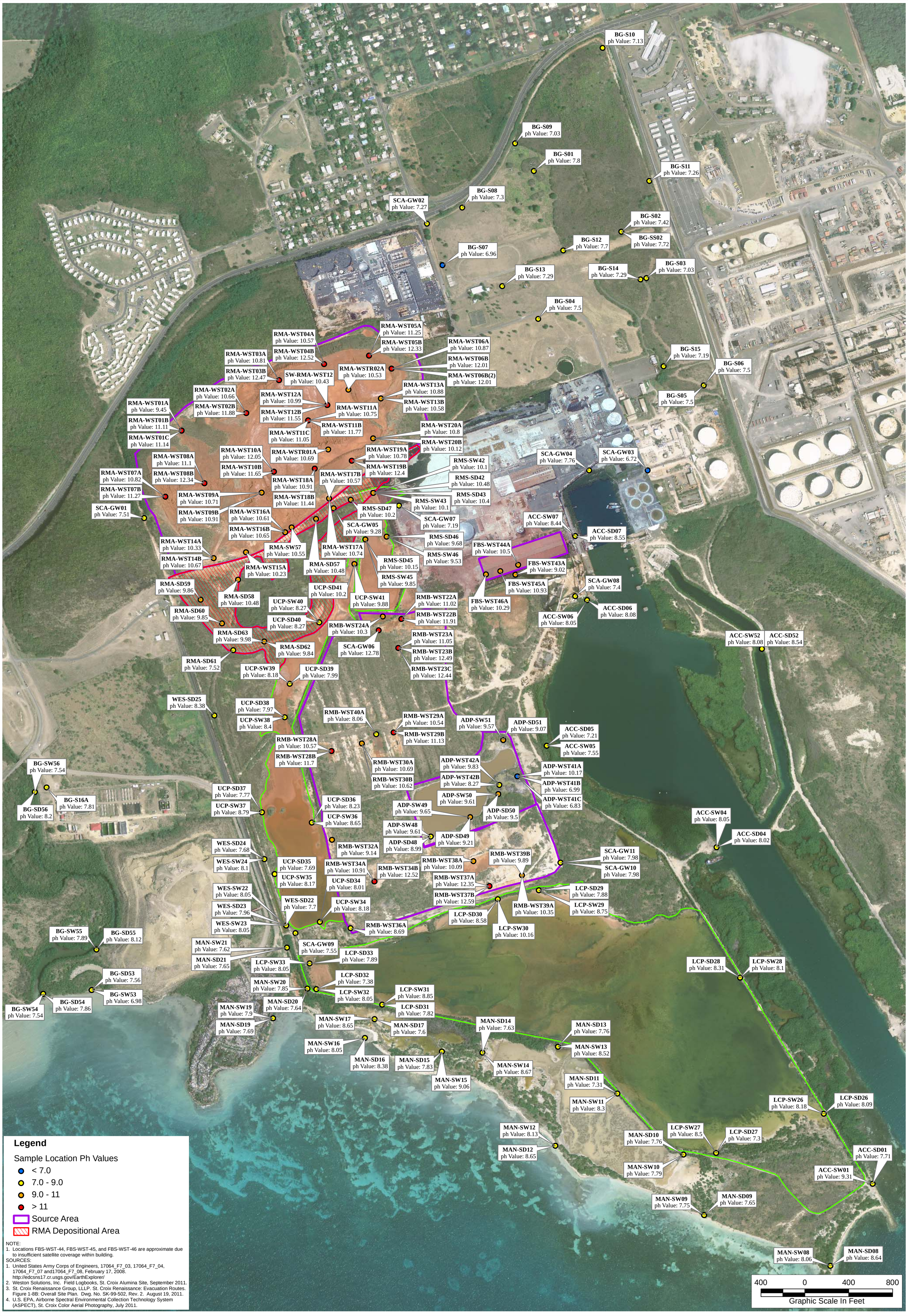
SOURCES:
1. United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008. http://edcsns17.cr.usgs.gov/EarthExplorer/
2. Weston Solutions, Inc. Field Logbooks, St. Croix Alumina Site, September 2011.
3. St. Croix Renaissance Group, LLLP. St. Croix Renaissance: Evacuation Routes. Figure 1-8B: Overall Site Plan. Dwg. No. SK-99-502, Rev. 2. August 19, 2011.
4. U.S. EPA, Airborne Spectral Environmental Collection Technology System (ASPECT), St. Croix Color Aerial Photography, July 2011.

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REPORT DATE: MAY 2012	PROJECT MANAGER: G. GILLILAND	CLIENT NAME: EPA	DRAWING TITLE: FIGURE 4 SAMPLE LOCATION MAP ST. CROIX ALUMINA (RENAISSANCE PARK) ST. CROIX, VI
DRAWING: 10507_SCA_Sample_Loc.mxd PATH: P:/SAT2/St. Croix Alumina (1455)/MXD/	CHECKED BY: G. GILLILAND		
REVISION No. 0	CONTRACT No. EP-S5-06-04 EP-W-06-72	PROJECT NAME: ST. CROIX ALUMINA (RENAISSANCE PARK)	FIGURE: 4
WORK ORDER Nos. 20405.012.013.1455.00 20401.132.022.5097	DRAWN/MODIFIED BY: R. SELLERS DATE CREATED: 05/18/2012		DATE: 05/18/2012



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REPORT DATE: MAY 2012	PROJECT MANAGER: G. GILLILAND	CLIENT NAME: EPA	DRAWING TITLE: FIGURE 5 PH FIELD MEASUREMENTS ST. CROIX ALUMINA (RENAISSANCE PARK) ST. CROIX, VI
DRAWING: 10508_SCA_Ph_Measurements.mxd PATH: P:/SAT2/St. Croix Alumina (1455)/MXD/	CHECKED BY: G. GILLILAND		
REVISION No. 0	CONTRACT No. EP-S5-06-04 EP-W-06-72	PROJECT NAME: ST. CROIX ALUMINA (RENAISSANCE PARK)	FIGURE: 5
WORK ORDER Nos. 20405.012.013.1455.00 20401.132.022.5097	DRAWN/MODIFIED BY: R. SELLERS DATE CREATED: 05/18/2012		DATE: 05/18/2012



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REPORT DATE: MAY 2012

DRAWING: 10530_SCA_RMAA_Samples.mxd
PATH: P:/SAT2/St. Croix Alumina (1455)/MXD/

REVISION No.: 0

WORK ORDER Nos.: 20405.012.013.1455.00, 20401.132.022.5097

PROJECT MANAGER: G. GILLILAND

CHECKED BY: G. GILLILAND

CONTRACT No.: EP-S5-06-04, EP-W-06-72

DRAWN/MODIFIED BY: R. SELLERS
DATE CREATED: 05/18/2012

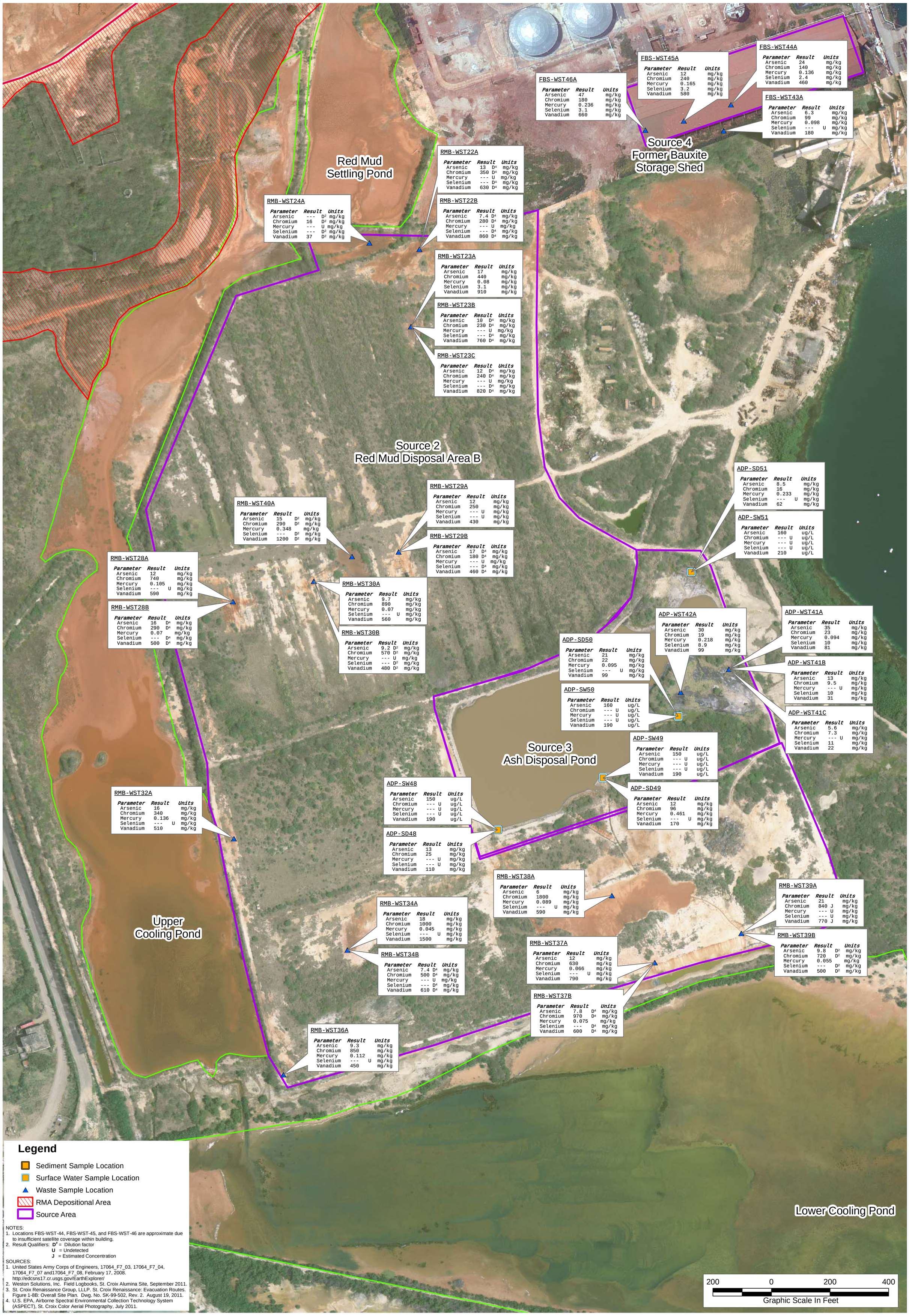
CLIENT NAME: EPA

PROJECT NAME: ST. CROIX ALUMINA (RENAISSANCE PARK)

DRAWING TITLE:
FIGURE 6
RED MUD DISPOSAL AREA A,
METALS RESULTS MAP
ST. CROIX ALUMINA (RENAISSANCE PARK)
ST. CROIX, VI

FIGURE: 6

DATE: 05/18/2012



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REPORT DATE: MAY 2012

DRAWING: 10531_SCA_RMAB_Samples.mxd
PATH: P:/SAT2/St. Croix Alumina (1455)/MXD/

REVISION No.: 0

WORK ORDER Nos.: 20405.012.013.1455.00 20401.132.022.5097

PROJECT MANAGER: G. GILLILAND

CHECKED BY: G. GILLILAND

CONTRACT No.: EP-S5-06-04 EP-W-06-72

DRAWN/MODIFIED BY: R. SELLERS
DATE CREATED: 05/18/2012

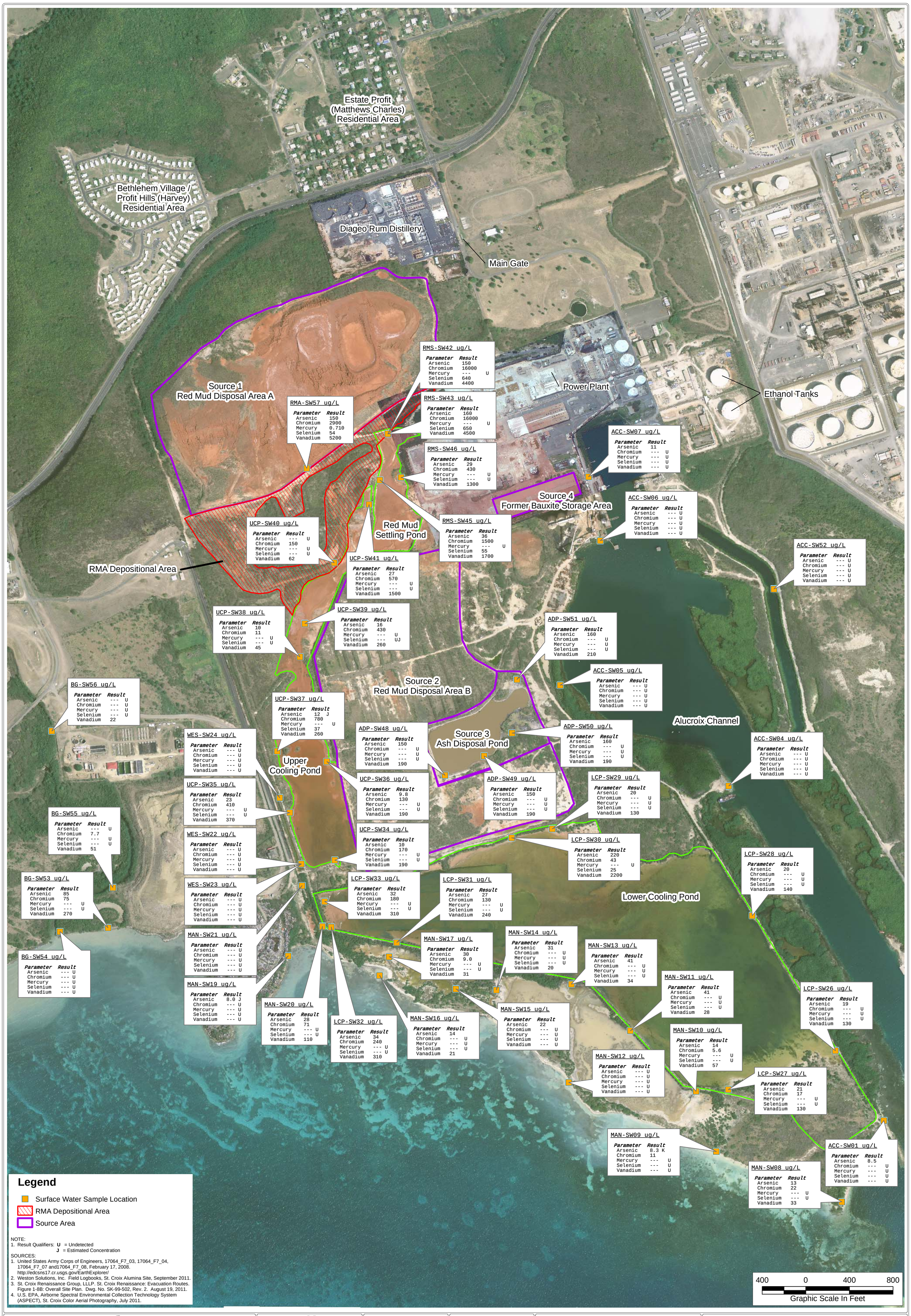
CLIENT NAME: EPA

PROJECT NAME: ST. CROIX ALUMINA (RENAISSANCE PARK)

DRAWING TITLE:
FIGURE 7
RED MUD DISPOSAL AREA B,
METALS RESULTS MAP
ST. CROIX ALUMINA (RENAISSANCE PARK)
ST. CROIX, VI

FIGURE: 7

DATE: 05/18/2012



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DRAWING: 10532_SCA_SurfaceWater_Samples.mxd
PATH: P:/SAT2/St. Croix Alumina (1455)/MXD/

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WORK ORDER Nos.: 20405.012.013.1455.00
20401.132.022.5097

PROJECT MANAGER: G. GILLILAND

CHECKED BY: G. GILLILAND

CONTRACT No.: EP-S5-06-04
EP-W-06-72

DRAWN/MODIFIED BY: R. SELLERS
DATE CREATED: 05/18/2012

CLIENT NAME: EPA

PROJECT NAME: ST. CROIX ALUMINA (RENAISSANCE PARK)

DRAWING TITLE:
FIGURE 8
SURFACE WATER,
METALS RESULTS MAP
ST. CROIX ALUMINA (RENAISSANCE PARK)
ST. CROIX, VI

FIGURE: 8

DATE: 05/18/2012

Estate Profit
(Matthews Charles)
Residential Area

Bethlehem Village /
Profit Hills (Harvey)
Residential Area

Diageo Rum Distillery

Main Gate

Power Plant

Ethanol Tanks

Source 1
Red Mud Disposal Area A

RMA Depositional Area

Red Mud
Settling Pond

Source 4
Former Bauxite Storage Area

Source 2
Red Mud Disposal Area B

Upper
Cooling Pond

Source 3
Ash Disposal Pond

Lower Cooling Pond

Alucroix Channel

RMS-SD42 mg/kg

Parameter	Result	
Arsenic	7.8	
Chromium	480	
Mercury	0.320	
Selenium	---	UJ
Vanadium	700	

RMS-SD43 mg/kg

Parameter	Result	
Arsenic	8.8	
Chromium	430	
Mercury	0.338	
Selenium	---	U
Vanadium	620	

RMS-SD47 mg/kg

Parameter	Result	
Arsenic	15	
Chromium	360	
Mercury	0.140	
Selenium	2.7	
Vanadium	1100	

RMS-SD46 mg/kg

Parameter	Result	
Arsenic	7.0	
Chromium	360	
Mercury	0.237	
Selenium	---	U
Vanadium	370	

RMS-SD45 mg/kg

Parameter	Result	
Arsenic	9.1	
Chromium	410	
Mercury	0.264	
Selenium	---	U
Vanadium	730	

ACC-SD07 mg/kg

Parameter	Result	
Arsenic	11	
Chromium	13	
Mercury	0.062	
Selenium	---	U
Vanadium	18	

ACC-SD06 mg/kg

Parameter	Result	
Arsenic	9.2	
Chromium	51	
Mercury	---	U
Selenium	---	U
Vanadium	70	

ACC-SD52 mg/kg

Parameter	Result	
Arsenic	1.2	
Chromium	10	
Mercury	---	U
Selenium	---	U
Vanadium	18	

UCP-SD41 mg/kg

Parameter	Result	
Arsenic	12	
Chromium	480	
Mercury	0.271	
Selenium	---	U
Vanadium	540	

UCP-SD40 mg/kg

Parameter	Result	
Arsenic	9.0	
Chromium	480	
Mercury	0.314	
Selenium	---	U
Vanadium	640	

WES-SD25 mg/kg

Parameter	Result	
Arsenic	5.3	
Chromium	74	
Mercury	---	U
Selenium	---	U
Vanadium	170	

UCP-SD39 mg/kg

Parameter	Result	
Arsenic	11	
Chromium	490	
Mercury	0.237	
Selenium	---	U
Vanadium	540	

ADP-SD51 mg/kg

Parameter	Result	
Arsenic	8.5	
Chromium	16	
Mercury	0.233	
Selenium	---	U
Vanadium	62	

BG-SD56 mg/kg

Parameter	Result	
Arsenic	1.4	
Chromium	27	
Mercury	---	U
Selenium	---	U
Vanadium	110	

UCP-SD38 mg/kg

Parameter	Result	
Arsenic	8.1	
Chromium	480	
Mercury	0.259	
Selenium	---	U
Vanadium	530	

ADP-SD49 mg/kg

Parameter	Result	
Arsenic	12	
Chromium	96	
Mercury	0.461	
Selenium	---	U
Vanadium	170	

ACC-SD05 mg/kg

Parameter	Result	
Arsenic	12	
Chromium	38	
Mercury	---	U
Selenium	3.4	
Vanadium	130	

UCP-SD37 mg/kg

Parameter	Result	
Arsenic	15	
Chromium	550	
Mercury	0.183	
Selenium	---	U
Vanadium	420	

ADP-SD48 mg/kg

Parameter	Result	
Arsenic	13	
Chromium	25	
Mercury	---	U
Selenium	---	U
Vanadium	110	

ADP-SD50 mg/kg

Parameter	Result	
Arsenic	21	
Chromium	22	
Mercury	0.095	
Selenium	---	U
Vanadium	99	

ACC-SD04 mg/kg

Parameter	Result	
Arsenic	2.2	
Chromium	12	
Mercury	---	U
Selenium	---	U
Vanadium	16	

WES-SD24 mg/kg

Parameter	Result	
Arsenic	4.0	
Chromium	33	
Mercury	---	U
Selenium	---	U
Vanadium	110	

UCP-SD36 mg/kg

Parameter	Result	
Arsenic	19	
Chromium	220	
Mercury	0.076	
Selenium	---	U
Vanadium	330	

LCP-SD29 mg/kg

Parameter	Result	
Arsenic	25	
Chromium	66	
Mercury	---	U
Selenium	---	U
Vanadium	320	

BG-SD55 mg/kg

Parameter	Result	
Arsenic	2.3	
Chromium	22	
Mercury	---	U
Selenium	---	U
Vanadium	88	

UCP-SD35 mg/kg

Parameter	Result	
Arsenic	26	
Chromium	390	
Mercury	0.110	
Selenium	---	U
Vanadium	450	

UCP-SD34 mg/kg

Parameter	Result	
Arsenic	26	
Chromium	230	
Mercury	0.079	
Selenium	---	U
Vanadium	340	

LCP-SD30 mg/kg

Parameter	Result	
Arsenic	33	
Chromium	120	
Mercury	---	U
Selenium	2.9	
Vanadium	440	

WES-SD23 mg/kg

Parameter	Result	
Arsenic	6.8	
Chromium	110	
Mercury	0.049	
Selenium	---	U
Vanadium	170	

LCP-SD33 mg/kg

Parameter	Result	
Arsenic	21	J
Chromium	78	J
Mercury	---	UJ
Selenium	---	UJ
Vanadium	320	J

LCP-SD31 mg/kg

Parameter	Result	
Arsenic	22	J
Chromium	160	J
Mercury	---	UJ
Selenium	---	UJ
Vanadium	590	J

LCP-SD28 mg/kg

Parameter	Result	
Arsenic	5.2	
Chromium	35	
Mercury	---	U
Selenium	1.7	
Vanadium	110	

BG-SD54 mg/kg

Parameter	Result	
Arsenic	2.5	
Chromium	9.6	
Mercury	---	U
Selenium	---	U
Vanadium	45	

WES-SD22 mg/kg

Parameter	Result	
Arsenic	8.1	
Chromium	160	
Mercury	---	U
Selenium	---	U
Vanadium	210	

MAN-SD17 mg/kg

Parameter	Result	
Arsenic	5.3	J
Chromium	28	J
Mercury	---	UJ
Selenium	---	UJ
Vanadium	69	J

MAN-SD15 mg/kg

Parameter	Result	
Arsenic	5.5	J
Chromium	7.1	
Mercury	---	U
Selenium	---	U
Vanadium	46	

MAN-SD13 mg/kg

Parameter	Result	
Arsenic	4.0	
Chromium	20	
Mercury	---	U
Selenium	---	U
Vanadium	47	

BG-SD53 mg/kg

Parameter	Result	
Arsenic	5.5	
Chromium	14	
Mercury	---	U
Selenium	---	U
Vanadium	50	

MAN-SD21 mg/kg

Parameter	Result	
Arsenic	2.8	J
Chromium	27	J
Mercury	---	UJ
Selenium	---	UJ
Vanadium	100	J

MAN-SD19 mg/kg

Parameter	Result	
Arsenic	18	
Chromium	35	
Mercury	---	U
Selenium	---	U
Vanadium	59	

MAN-SD16 mg/kg

Parameter	Result	
Arsenic	3.0	
Chromium	3.9	
Mercury	---	U
Selenium	---	U
Vanadium	10	

LCP-SD32 mg/kg

Parameter	Result	
Arsenic	34	J
Chromium	570	J
Mercury	---	UJ
Selenium	---	UJ
Vanadium	500	J

MAN-SD14 mg/kg

Parameter	Result	
Arsenic	3.9	
Chromium	15	
Mercury	---	U
Selenium	---	U
Vanadium	43	

MAN-SD11 mg/kg

Parameter	Result	
Arsenic	4.2	
Chromium	8.9	
Mercury	---	U
Selenium	---	U
Vanadium	38	

LCP-SD26 mg/kg

Parameter	Result	
Arsenic	12	
Chromium	45	
Mercury	---	U
Selenium	---	U
Vanadium	200	

MAN-SD20 mg/kg

Parameter	Result	
Arsenic	13	J
Chromium	140	J
Mercury	---	UJ
Selenium	---	UJ
Vanadium	210	J

LCP-SD27 mg/kg

Parameter	Result	
Arsenic	25	
Chromium	120	
Mercury	---	U
Selenium	---	U
Vanadium	220	

MAN-SD12 mg/kg

Parameter	Result	
Arsenic	3.7	
Chromium	6.0	
Mercury	---	U
Selenium	---	U
Vanadium	11	

MAN-SD10 mg/kg

Parameter	Result	
Arsenic	4.1	
Chromium	14	
Mercury	---	U
Selenium	---	U
Vanadium	60	

ACC-SD01 mg/kg

Parameter	Result	
Arsenic	2.3	
Chromium	7.0	
Mercury	---	U
Selenium	---	U
Vanadium	8.2	

MAN-SD09 mg/kg

Parameter	Result	
Arsenic	3.0	
Chromium	7.0	
Mercury	---	U
Selenium	---	U
Vanadium	13	

MAN-SD08 mg/kg

Parameter	Result	
Arsenic	3.5	
Chromium	7.4	
Mercury	---	U
Selenium	---	U
Vanadium	22	

Legend

- Sediment Sample Location
- RMA Depositional Area
- Source Area

NOTE:
1. Result Qualifiers: **U** = Undetected
   J = Estimated Concentration

SOURCES:
1. United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008. http://edcsns17.cr.usgs.gov/EarthExplorer/
2. Weston Solutions, Inc. Field Logbooks, St. Croix Alumina Site, September 2011.
3. St. Croix Renaissance Group, LLLP. St. Croix Renaissance: Evacuation Routes. Figure 1-8B: Overall Site Plan. Dwg. No. SK-99-502, Rev. 2. August 19, 2011.
4. U.S. EPA, Airborne Spectral Environmental Collection Technology System (ASPECT), St. Croix Color Aerial Photography, July 2011.

400 0 400 800
Graphic Scale In Feet

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REPORT DATE: MAY 2012

PROJECT MANAGER: G. GILLILAND

CLIENT NAME: EPA

DRAWING TITLE: FIGURE 9
SEDIMENT, METALS RESULTS MAP
ST. CROIX ALUMINA (RENAISSANCE PARK)
ST. CROIX, VI

DRAWING: 10533_SCA_Sediment_Samples.mxd
PATH: P:/SAT2/St. Croix Alumina (1455)/MXD/

CHECKED BY: G. GILLILAND

REVISION No.: 0

CONTRACT No.: EP-S5-06-04
EP-W-06-72

PROJECT NAME: ST. CROIX ALUMINA
(RENAISSANCE PARK)

WORK ORDER Nos.: 20405.012.013.1455.00
20401.132.022.5097

DRAWN/MODIFIED BY: R. SELLERS
DATE CREATED: 05/18/2012

FIGURE: 9

DATE: 05/18/2012

Estate Profit
(Matthews Charles)
Residential Area

Bethlehem Village /
Profit Hills (Harvey)
Residential Area

Diageo Rum Distillery

Main Gate

Source 1
Red Mud Disposal Area A

RMA Depositional Area

Red Mud
Settling Pond

Source 4
Former Bauxite Storage Area

Source 2
Red Mud Disposal Area B

Source 3
Ash Disposal Pond

Alucroix Channel

Waste Water
Treatment Plant

Upper
Cooling Pond

Municipal
Landfill

Lower Cooling Pond

SCA-GW02 ug/L

Parameter	Result
Arsenic	--- U
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	--- U

SCA-GW02F ug/L

Parameter	Result
Arsenic	--- U
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	--- U

SCA-GW01 ug/L

Parameter	Result
Arsenic	--- U
Chromium	5.1
Mercury	--- U
Selenium	--- U
Vanadium	--- U

SCA-GW01F ug/L

Parameter	Result
Arsenic	--- U
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	--- U

SCA-GW05 ug/L

Parameter	Result
Arsenic	180
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	28

SCA-GW05F ug/L

Parameter	Result
Arsenic	180
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	27

SCA-GW06 ug/L

Parameter	Result
Arsenic	2700
Chromium	1400
Mercury	0.501
Selenium	350
Vanadium	18000

SCA-GW06F ug/L

Parameter	Result
Arsenic	2800
Chromium	1300
Mercury	0.468
Selenium	360
Vanadium	18000

SCA-GW07 ug/L

Parameter	Result
Arsenic	17 J
Chromium	41
Mercury	--- U
Selenium	--- UJ
Vanadium	77

SCA-GW07F ug/L

Parameter	Result
Arsenic	8.3 J
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	42

SCA-GW04F ug/L

Parameter	Result
Arsenic	--- U
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	--- U

SCA-GW04 ug/L

Parameter	Result
Arsenic	--- U
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	--- U

SCA-GW03 ug/L

Parameter	Result
Arsenic	--- U
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	--- U

SCA-GW03F ug/L

Parameter	Result
Arsenic	--- U
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	--- U

SCA-GW08 ug/L

Parameter	Result
Arsenic	--- U
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	--- U

SCA-GW08F ug/L

Parameter	Result
Arsenic	--- U
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	--- U

SCA-GW10 ug/L

Parameter	Result
Arsenic	110
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	38

SCA-GW10F ug/L

Parameter	Result
Arsenic	120
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	35

SCA-GW11 ug/L

Parameter	Result
Arsenic	110
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	39

SCA-GW11F ug/L

Parameter	Result
Arsenic	130
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	37

SCA-GW09 ug/L

Parameter	Result
Arsenic	--- U
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	--- U

SCA-GW09F ug/L

Parameter	Result
Arsenic	--- U
Chromium	--- U
Mercury	--- U
Selenium	--- U
Vanadium	--- U

Legend

- Ground Water Sample Location
- RMA Depositional Area
- Source Area

NOTE:
1. Result Qualifiers: **U** = Undetected

SOURCES:
1. United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008. http://edcsns17.cr.usgs.gov/EarthExplorer/
2. Weston Solutions, Inc. Field Logbooks, St. Croix Alumina Site, September 2011.
3. St. Croix Renaissance Group, LLLP. St. Croix Renaissance: Evacuation Routes. Figure 1-8B: Overall Site Plan. Dwg. No. SK-99-502, Rev. 2. August 19, 2011.
4. U.S. EPA, Airborne Spectral Environmental Collection Technology System (ASPECT), St. Croix Color Aerial Photography, July 2011.

400 0 400 800
Graphic Scale In Feet

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N W E S

REPORT DATE: MAY 2012

DRAWING: 10551_SCA_GroundWater_Samples.mxd
PATH: P:/SAT2/St. Croix Alumina (1455)/MXD/

REVISION No.: 0

WORK ORDER Nos.: 20405.012.013.1455.00
20401.132.022.5097

PROJECT MANAGER: G. GILLILAND

CHECKED BY: G. GILLILAND

CONTRACT No.: EP-S5-06-04
EP-W-06-72

DRAWN/MODIFIED BY: R. SELLERS
DATE CREATED: 05/18/2012

CLIENT NAME: EPA

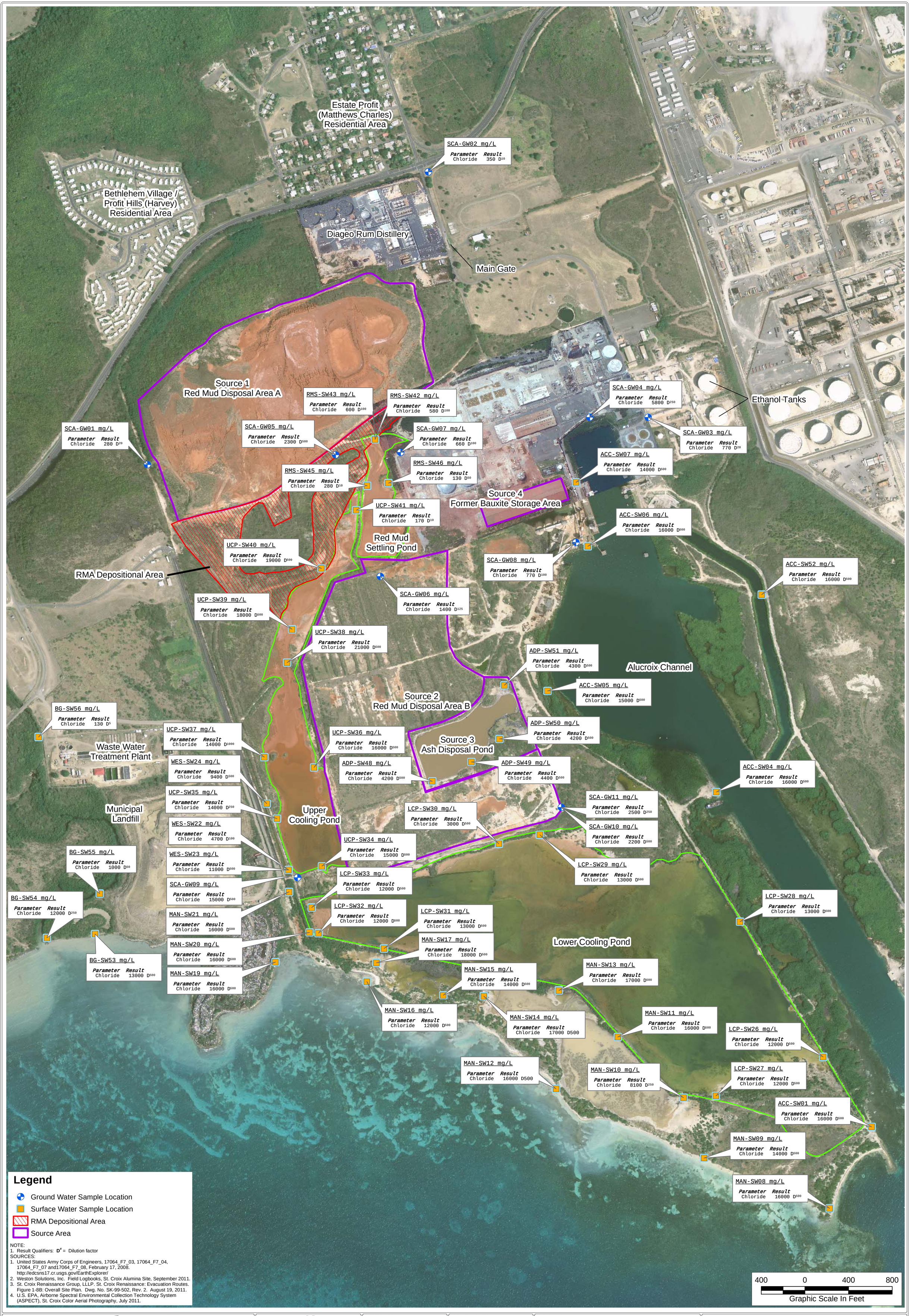
PROJECT NAME: ST. CROIX ALUMINA (RENAISSANCE PARK)

DRAWING TITLE:

FIGURE 10
GROUND WATER, METALS RESULTS MAP
ST. CROIX ALUMINA (RENAISSANCE PARK)
ST. CROIX, VI

FIGURE: 10

DATE: 05/18/2012



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REPORT DATE: MAY 2012	PROJECT MANAGER: G. GILLILAND	CLIENT NAME: EPA	DRAWING TITLE: FIGURE 11 CHLORIDE RESULTS MAP ST. CROIX ALUMINA (RENAISSANCE PARK) ST. CROIX, VI
DRAWING: 10552_SCA_Chlorides.mxd PATH: P:/SAT2/St. Croix Alumina (1455)/MXD/	CHECKED BY: G. GILLILAND		
REVISION No. 0	CONTRACT No. EP-S5-06-04 EP-W-06-72	PROJECT NAME: ST. CROIX ALUMINA (RENAISSANCE PARK)	
WORK ORDER Nos. 20405.012.013.1455.00 20401.132.022.5097	DRAWN/MODIFIED BY: R. SELLERS DATE CREATED: 05/18/2012		FIGURE: 11 DATE: 05/18/2012



Legend

- Below Average Background (Bkg) of 5194 cpm
- 6387 - 6983 cpm (Bkg + 2 Sigma to Bkg + 3 Sigma)

All measurements were aquired using the Rapid Assessment Tool (RAT).

Notes

cpm = counts per minute

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

70 35 0 70 140
Graphic Scale in Feet

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REPORT DATE: MAY 2012	EPA OSC: D. ROSOFF
DRAWING: 10907_Alumina_Table_10.mxd PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\	RST SPM: E. KNYFD
REVISION No. 0	CONTRACT No. EP-W-06-072
WORK ORDER No. 20401.132.022.5097	GIS ANALYST: J.TORRES DATE CREATED: 2/15/2012

CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROJECT NAME: ST CROIX ALUMINA SITE

DRAWING TITLE: FIGURE 12 - GAMMA COUNT RATE MEASUREMENTS COLLECTED ALONG THE NORTHERN FENCE LINE OF THE SITE (TABLE 31)

FIGURE:	SCALE:	DATE:
12	1:840	5/18/2012



Legend

- Below Average Background (Bkg) of 5194 cpm

All measurements were aquired using the Rapid Assessment Tool (RAT).

Notes

cpm = counts per minute

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

75 37.5 0 75 150
Graphic Scale in Feet

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REPORT DATE: MAY 2012	EPA OSC: D. ROSOFF
DRAWING: 10908_Alumina_Table_11.mxd PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\	RST SPM: E. KNYFD
REVISION No. 0	CONTRACT No. EP-W-06-072
WORK ORDER No. 20401.132.022.5097	GIS ANALYST: J. TORRES DATE CREATED: 2/15/2012

CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROJECT NAME: ST CROIX ALUMINA SITE

DRAWING TITLE: FIGURE 13 - GAMMA COUNT RATE MEASUREMENTS COLLECTED IN HARVEY (TABLE 32)

FIGURE:	SCALE:	DATE:
13	1:900	5/18/2012



Legend

● Below Average Background (Bkg) of 5194 cpm

All measurements were aquired using the Rapid Assessment Tool (RAT)

Notes

cpm = counts per minute

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

30 15 0 30 60
Graphic Scale in Feet

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REPORT DATE: MAY 2012	EPA OSC: D. ROSOFF	CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY	DRAWING TITLE: FIGURE 14 - GAMMA COUNT RATE MEASUREMENTS COLLECTED INSIDE THE PEDRO CRUZ BALLFIELD LOCATED IN MATTHEWS CHARLES (TABLE 33)
DRAWING: 10909_Alumina_Table_12.mxd PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\	RST SPM: E. KNYFD		
REVISION No. 0	CONTRACT No. EP-W-06-072	PROJECT NAME: ST CROIX ALUMINA SITE	
WORK ORDER No. 20401.132.022.5097	GIS ANALYST: J. TORRES DATE CREATED: 2/15/2012		FIGURE: 14 SCALE: 1:360 DATE: 5/18/2012



Legend

- Below Average Background (Bkg) of 5194 cpm

All measurements were aquired using the Rapid Assessment Tool (RAT)

Notes

cpm = counts per minute

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

30 15 0 30 60
Graphic Scale in Feet

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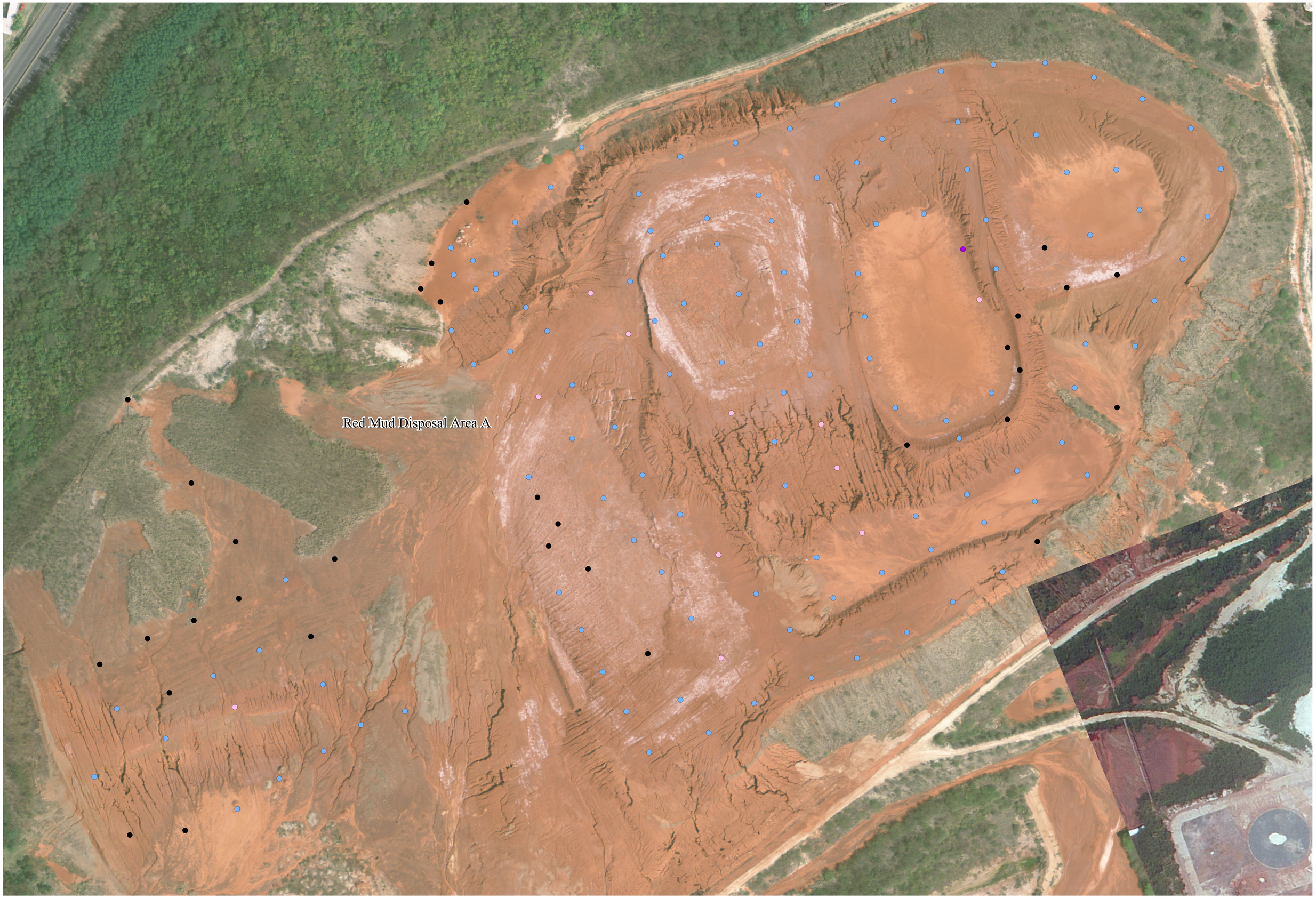
REPORT DATE: MAY 2012	EPA OSC: D. ROSOFF
DRAWING PATH: 10910_Alumina_Table_13.mxd P:\SAT2\St. Croix Alumina (1455)\MXD\	RST SPM: E. KNYFD
REVISION No. 0	CONTRACT No. EP-W-06-072
WORK ORDER No. 20401.132.022.5097	GIS ANALYST: J. TORRES DATE CREATED: 2/15/2012

CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROJECT NAME: ST CROIX ALUMINA SITE

DRAWING TITLE: FIGURE 15 - GAMMA COUNT RATE MEASUREMENTS COLLECTED INSIDE THE PEDRO CRUZ RECREATIONAL AREA LOCATED IN MATTHEWS CHARLES (TABLE 34)

FIGURE:	SCALE:	DATE:
15	1:360	5/18/2012



Legend

- 20 - 40 uR/hr
- 40 - 50 uR/hr
- 50 - 60 uR/hr
- 60 - 70 uR/hr

Average Background = 3.6 uR/hr.

All measurements were aquired with a Ludlum Model 19 MicroR Meter.

60 30 0 60 120
Graphic Scale in Feet

Notes

uR/hr = micro-Roentgen per hour

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

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REPORT DATE: MAY 2012	EPA OSC: D. ROSOFF	CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY	DRAWING TITLE: FIGURE 16 - SURFACE EXPOSURE RATES ON THE RED MUD DISPOSAL AREA "A" (TABLE 35)
DRAWING: 10911_Alumina_Table_I4.mxd PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\	RST SPM: E. KNYFD		
REVISION No. 0	CONTRACT No. EP-W-06-072	PROJECT NAME: ST CROIX ALUMINA SITE	
WORK ORDER No. 20401.132.022.5097	GIS ANALYST: J. TORRES DATE CREATED: 2/15/2012		FIGURE: 16 SCALE: 1:720 DATE: 5/18/2012



Legend

- Screening Location

Notes

Screening result represents the SAM-940 Photon Data expressed as microrem per hour (urem/hr), where rem = Roentgen Equivalent Man

Background measurements (sample ID's beginning with "BKG") were collected at the facility's Training Building, which was used as the Command Post for the field sampling effort.

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

250 125 0 250 500
Graphic Scale in Feet

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REPORT DATE: MAY 2012	EPA OSC: D. ROSOFF
DRAWING: 11026_Alumina_Rad_Screen_SAM_940.mxd PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\	RST SPM: E. KNYFD
REVISION No. 0	CONTRACT No. EP-W-06-072
WORK ORDER No. 20401.132.022.5097	GIS ANALYST: J. TORRES DATE CREATED: 3/9/2012

CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROJECT NAME: ST CROIX ALUMINA SITE

DRAWING TITLE: FIGURE 17 - SAM-940 GAMMA SPEC DATA (TABLE 36)

FIGURE: 17 SCALE: 1:3,300 DATE: 5/18/2012



Legend

- Sample Location

Isotope Definitions

Th-230 = Thorium-230
Th-232 = Thorium-232
Ra-226 = Radium-226
Ra-228 = Radium-228
U-234 = Uranium-234
U-235 = Uranium-235
U-238 = Uranium-238

Notes

Results are expressed as pico-Curies per gram (pCi/g)

ND = Not Detected

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

250 125 0 250 500
Graphic Scale in Feet

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REPORT DATE: MAY 2012
EPA OSC: D. ROSOFF
DRAWING: 10913_Alumina_Table_4_4C.mxd
PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\
RST SPM: E. KNYFD
REVISION No.: 0
CONTRACT No.: EP-W-06-072
WORK ORDER No.: 20401.132.022.5097
GIS ANALYST: J. TORRES
DATE CREATED: 2/16/2012
CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
PROJECT NAME: ST CROIX ALUMINA SITE

DRAWING TITLE:

FIGURE 18 - RADIOLOGICAL RESULTS OF BACKGROUND SOIL SAMPLES COLLECTED PRIMARILY FROM THE NORTHEAST PORTION OF THE SITE (TABLE 39)

FIGURE: 18
SCALE: 1:3,300
DATE: 5/18/2012



Legend

- Sample Location
- Site Areas
- RMA Depositional Area

Notes

Sample ID Suffix
"A" means a surface sample collected from ground surface to a depth of 2 feet below ground surface;
"B" means a subsurface sample collected from a depth > 2 feet

Results are expressed as pico-Curies per gram (pCi/g)

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

Isotope Definitions

Th-230 = Thorium-230
Th-232 = Thorium-232
Ra-226 = Radium-226
Ra-228 = Radium-228
U-234 = Uranium-234
U-235 = Uranium-235
U-238 = Uranium-238

250 125 0 250 500
Graphic Scale in Feet

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REPORT DATE: MAY 2012	EPA OSC: D. ROSOFF	CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY	DRAWING TITLE: FIGURE 19 - NET RADIOLOGICAL ANALYSES RESULTS OF SURFACE AND SUBSURFACE WASTE AND SEDIMENT SAMPLES WITH BACKGROUND SUBTRACTED (TABLE 42)
DRAWING: 11365_Alumina_Table_4_10C_SF.mxd PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\	RST SPM: E. KNYFD		
REVISION No. 0	CONTRACT No. EP-W-06-072	PROJECT NAME: ST CROIX ALUMINA SITE	
WORK ORDER No. 20401.132.022.5097	GIS ANALYST: J. TORRES DATE CREATED: 5/18/2012		FIGURE: 19 SCALE: 1:3,000 DATE: 5/18/2012

Appendices

FIELD LOGBOOK #1



"Rite in the Rain"
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ENVIRONMENTAL
No. 550F

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KINGSHILL, ST CROIX,
U.S. VIRGIN ISLANDS

DCN#1455-4E-ASKV

No. 550F ENVIRONMENTAL
32281 55021
ISBN 978-1-932149-50-0

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6/2/11

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Project ST CROIX ALUMINA (RENAISSANCE PARK)
KINGSHILL, ST CROIX, USVI

WO# 20405.012.013.1455.00

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21	SAMPLING EVENT	

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149 Sampling guidelines (Solids)
150 Approximate Volume of Water in Casing or Hole, Ground Water Monitoring Well
151 PVC Pipe casing tables
152 Soil Classification
153 Soil Classification
154 Conversions (Length, Weight, Volume, Temp, etc...)
155 Conversions (Concentrations, Volume/Flow or Time, Velocity, Acceleration)
156 Maximum Concentration of Contaminants for the Toxicity Characteristic

CONTENTS

PAGE	REFERENCE	DATE
↓	MAP FROM SCRG ATTACHED:	6/01/11

(OPEN)

SITE MAP, FROM SCRG

GVG 6/1/11

Location ST CROIX, USVI Date 6/01/11

Project / Client ST CROIX ALUMINA / EPA (SCA)

0905 ARRIVED AT GATE TO THE FORMER SCA FACILITY, MET W/ EPA & DPNR REPS, SIGNED IN.

0915 MEETING W/ ST CROIX RENAISSANCE GROUP (SCRG) IN THE CONFERENCE ROOM. EPA, DPNR, PLUS: ZAKHAMA, JEHANGIR - PLANT MGR
JEFFERY SEPESI, ATTORNEY (LAW OFFICES OF JEFFERY SEPESI)

- JEFF SEPESI PRESENTS INFORMATION RE: CURRENT FACILITY STATUS AND FUTURE PLANS FOR REDEVELOPMENT
- GEORGE PAVLOU EXPLAINS EPA PRIORITIES
- PRESENTATION AND DISCUSSION COVERED MANY SOURCES / ENVIRONMENTAL TOPICS / SITE HISTORY (SEE DOCUMENTS FROM SCRG & DPNR, AND ADDITIONAL DOCUMENTS)

1115 MEETING ENDS, WE STARTED A DRIVING TOUR OF THE SITE.

1130 OBSERVED EROSION CHANNELS ON SOUTH SIDE OF AREA A; WAS LET OUT TO STORMWATER POND & COOLING POND

GVG 6/1/11


North
HOVENSA Refinery
Process Area
Area A -->
Docks
Turning Basin
East
Area B
TPDES Outflow -->
West Ditch -->
<-- Alucroix Channel
Upper Cooling Pond
Lower Cooling Pond
Image U.S. Geological Survey
©2010 Go
From Google Earth Pro - U.S. Geological Survey Image, November 1, 2006

Location St Croix, USVI Date 06/01/11
Project / Client St Croix Alumina / EPA

1135 Rad Meter Ludlum Model 12
S/N #125298; Probe Model 44-9
Background (CUG 60) = 40-60 cts/minute
1145 West side of RM Area A
- Wet red mud at outer base showed 100 cts/minute on Rad meter w/ pan cake probe
- Erosion channels on top of pile
  → 100-200 cpm alpha/beta at the ground surface
  → ~100 cpm gamma
  → Breathing zone < 2x background
1215 Arrived at RM Disposal Area B
- Old wet disposal area; flat ground
- Access road through middle, whole area is walkable
- Rad meter above background (~80 cpm)
1230 Driving tour done, back to Admin offices
1240 EPA, DPNR, and Weston off site. Return at 1430 today.
1300 Bethlehem Village - EPA will stay here for meeting, Weston - lunch and windshield survey

6/1/11

Location St Croix USVI Date 06/01/11
Project / Client St Croix Alumina / EPA

1345 Weston drove around Bethlehem Village and Profit Hills subdivisions - housing
- 200 units (rentals)
- ~500 people total
- Rent through VI Govt, HUD housing (FHA)
- Some ~~units~~ structures appear to be multiple units
- Parking lots give access to many units closest to the site
1420 Weston met EPA back at the site gate. Dave R and George P into the Diageo facility (gate next to SCRG).
1425 Info from Lcdr Acosta about residential com
- 200 units
- 589 residents (270 adults, balance are children
- Built in late 1960s by Harvey Alumina as worker housing
- Managed by DWH (look up acronym)

6/1/11

Location St Croix, USVI Date 6/1/11
Project / Client St Croix Alumina / EPA

1430 More residential info:
- About 120 homes do not receive WAPA water
- Door-to-door survey revealed many health concerns

1445 Met w/ Jeff Sepesi, Zak, and Jay Sheen

1500 Drove to boulders in access road, set out to walk to West Ditch
GPS: - Access road to boulders (line)
- West Ditch, N end (point, offset by 20')

1530 Accessible portions of West Ditch (GPS by Scott)
- West Ditch is perennial
- Minimal stream flow (<10 cfs)
- Classified as water body by DPNR
- South end sediment/soil is coarser than material in middle
- Cut off from its lower (south) portion by overflow pipes, which lead to the Lower Cooling Pond

6/1/11

Location St Croix, USVI Date 6/1/11
Project / Client St Croix Alumina / EPA

1540 Upper Cooling Pond
- MW at southern end
- Overflow pipes (7) at southern end, old - previously used by Martin Marietta to control runoff
- Discharge seeps directly into mangrove area (SW corner of site)
- Observed overflow ("waterfall") from Upper Cooling Pond into stream that flows to Lower Cooling Pond
→ 2.5 MGD from Upper to Lower Cooling Pond (approx.)

1600 Lower portion of the West Ditch - disconnected from northern portion since remediation
- Mangrove area
- GPS point at easiest access
- GPS point at access to mangrove at beach area where RM discharged April 2002

6/1/11

Location ST CROIX, USVI Date 6/1/11
Project / Client ST CROIX ALUMINA / EPA

1610 LOWER COOLING POND
- ABOUT 4' DEEP ⇒ 2' WATER
  2' SILTS
- TILAPIA 6-8" LONG LIVE IN THE LCP
- OBSERVED BROWN PELICAN DIVING FOR FISH INTO THE LCP.

1620 HEAD BACK TO CARS

1640 RECON OF WEST DITCH AND COOLING PONDS (WEST SIDE) COMPLETED
BEGAN RECON OF THE PERIMETER OF RM DISPOSAL AREA A
- GPS OF ACCESS ROAD
- STOP ON NORTH SIDE
- DRAINAGE DITCH AROUND THE RM AREA A FLOWS THROUGH CULVERTS ON SOUTH SIDE, INTO RETENTION POND, THEN INTO UPC
- 4 PHOTOS OF THE WASTE SOURCE
  1455-06-01-01: ERODED PILE
  TO -03 " "
  1455-06-01-04: CLOSE-UP W/CRITTER "GAMBOLD"

1720 OFF SITE.

06/1/11

Location ST CROIX, USVI Date 6/2/11
Project / Client ST CROIX ALUMINA / EPA

0800 GERRY GILLILAND (GG) AND SCOTT SNYDER (SS) OF WESTON ARRIVE AT FACILITY GATE TO COMPLETE RECONNAISSANCE OF THE SCA SITE.

0815 SPOKE W/ ILDE ACOSTA (IA) OF EPA; EXPECTS TO ARRIVE IN 10-15 MINUTES.

0825 IA AND DALE ROSOFF (DR) OF EPA ARRIVES - CHECK IN AT GATE

0835 MET W/ JEFF SEPESI AND JAY SHEEN AT ADMIN BLDG. ALSO, COURTNEY DICKENSON OF DPNR

0840 SS CALIBRATES (ZERO CAL) THE MIE DUST MISTER (pDR MODEL) S/N 4301 (WESTON # RFW 24118)

0900 INFO FROM ZAK
- PILES IN STORAGE SHED IS MOSTLY RM, SOME ALUMINA, FROM TANKS UPON SHUTDOWN AND OTHER EQUIPMENT
- COAL STORAGE AREA - INCLUDES RAIN WATER CATCHMENT (UNDERNEATH) WITH A SUMP; CAUGHT W/IN BERM

6/2/11

Location ST CROIX, USVI Date 6/2/11
Project / Client ST CROIX ALUMINA / EPA

0940 AREA B (SOUTHERN PORTION)
- LARGE OPEN AREA, SPARSELY VEGETATED
- CALICHE AND RED MUD VISIBLE AT SURFACE
  - INFO INDICATES THAT THE RM WAS COVERED BY 2' OF CALICHE.
- EXPOSED AREA IN SOUTHERN CELL SHOWS WET RM AT SURFACE
  - CONNECTED TO ASH RETENTION POND BY DITCH
  - READINGS >2x BACKGROUNDS ON RADMETER (PEAK AT 120 CPM)

1005 ASH DISPOSAL AREA
- AT SE CORNER OF RETENTION POND
- BLACK & GRAY BOTTOM ASH EXPOSED AT SURFACE
- BOTTOM ASH DISPOSAL FROM 1982 (WHEN PLANT SWITCHED TO COAL)
  - FLY ASH WAS MIXED WITH RM SLURRY AT ABOUT 1-2%
- READINGS ~90-100 CPM ON RADMETER
  - 9-10 MICR/HR

6/2/11

Location ST CROIX, VI Date 6/2/11
Project / Client ST CROIX ALUMINA / EPA

PHOTO LOG

1455-06-02-01: AREA B, EXPOSED CATCHMENT; DITCH ON RIGHT; LOOKING WEST

1455-06-02-02: LOOKING NORTH FROM EXPOSED AREA ALONG DITCH TO ASH POND

1455-06-02-03: LOOKING NORTH AT ASH POND WHERE DITCH EXITS

1455-06-02-04: ASH DISPOSAL AREA LOOKING W (LANDFILL IN BACKGROUND)

1455-06-02-05: ASH DISPOAL AREA, LOOKING W FROM ACCESS ROAD

1455-06-02-06: TPDES OUTFALL CLOSE-UP - BLUE CRAB

1455-06-02-07: TPDES OUTFALL, LOOKING N AT OUTFALL APPARATUS ON LOWER COOLING POND

1455-06-02-08: LOOKING E. AT DISCHARGE DITCH INTO ALUCROIX CHANNEL

1455-06-02-09: ALUCROIX CHANNEL, LOOKING N. FROM SOUTHERN END

1455-06-02-10: LOOKING SSE FROM SOUTHERN END OF ALUCROIX CHANNEL.

6/2/11

Location St Croix, VI Date 6/2/11

Project / Client St Croix Alumina / EPA

1030 ~~AcuCroix Channel~~ EVG
TPDES Outfall
- Discharge from LCP to AcuCroix Channel
- Automatic release based on water height/pressure

1045 Southern end of AcuCroix Channel
- Pelicans observed on shoreline

1055 Mangrove Lagoon
- Southern end of LCP
- Red-mud staining observed at surface
- Stressed vegetation observed at edge of water and in center

1110 Upper Cooling Pond, southwest corner
- Pelican observed in water
- RM ~~ar~~ EVG all along shoreline

1130 Info from Syed Syedali
Syed.Syedali@DPNR.gov.vi
- Fairplain wellfield is on standby, used last year

EVG

Gerald V. Gibbs 6/2/11

Location St Croix, VI Date 6/2/11

Project / Client St Croix Alumina / EPA

Photo Log, p. 2

1455-06-02-11: ~~Lagoon~~ Mangrove Lagoon access, looking south from access road.

1455-06-02-12: Outflow pipe from LCP to Mangrove Lagoon, looking S.

1455-06-02-13: Same, looking into the lagoon

1455-06-02-14: Looking S. at stressed vegetation in Mangrove Lagoon

1455-06-02-15: Upper Cooling Pond, looking N. from SE corner

1455-06-02-16: UCP close-up, zoom to show RM Disposal Area A in background

1455-06-02-17: Looking N across the Lower Cooling Pond; pelican on surface

1455-06-02-18: Looking S at RM piles in storage shed

1455-06-02-19: Looking SE across storage shed, from NW corner

1455-06-02-20: Former RM processing, > W

1455-06-02-21: RM settling pond, looking SW toward UCP; note outfall.

Gerald V. Gibbs 6/2/11

Location St Croix, VI Date 6/2/11
Project / Client St Croix Alumina / EPA

1200 Former Bauxite Storage Sheds
- 660' x 2200' x 80'
- Open sides and ends
- Currently there's residual RM and unused bauxite from the time of shutdown
- RAD meters: 80-100 cpm
  - DR's meter - 45-50 MicroR/hr
- Some caliche/concrete piled in here also
- SCRG plans to keep the sheds

1215 RM Transfer Area
- Residual RM 45-50 mR/hr
- Adjacent to settling pond, which then discharges to UCP

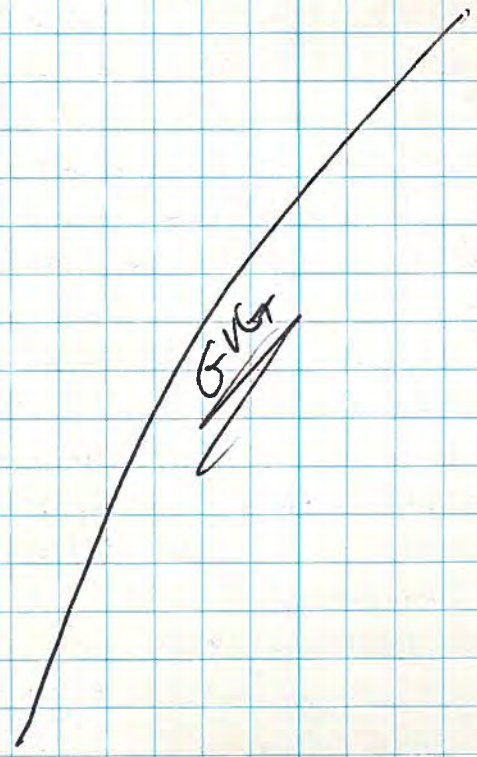
1230 RM Disposal Area A
- High point on the site shows view of Bethlehem Village
- Surface is severely eroded, many channels; consists of hard material and dust, variable
  - → hard material is crust from mixture w/ seawater

Gerald V. Gilbert 6/2/11

Location St Croix VI Date 6/2/11
Project / Client St Croix Alumina / EPA

Photo Log, p. 3

1455-06-02-22: Looking N from RM transfer area to Area A.
1455-06-02-23: RM Area A waste pile
1455-06-02-24: Looking N from high point on RM Area A to residences in Bethlehem Village and Prospect Hills



Gerald V. Gilbert 6/2/11

Location St Croix, VI Date 6/2/11

Project / Client St Croix Alumina / EPA

1315 Back at Admin office, info from ZAK

- Lower cooling pond consists of briny water → salt water
- LCP was dredged in 1994-5
  → spoils went into southern cell of Area B, and spit to east of Area B
- Outfall from ~~the~~ settling pond to UCP is accessible by foot path
  → drive to point just north

Met w/ Jack Thomas, SCRG Brownfields

- He discovered the release to the West Ditch
- Long-term goal is to get a cooling tower, eliminate the cooling ponds (cap them)

1350 Weston and EPA off site. Proceeded separately to DPNR offices at this time.

1400 Lunch in transit

GWC

6/2/11

Location St Croix, VI Date 6/2/11

Project / Client St Croix Alumina / EPA

1445 Weston arrived at DPNR, met w/ Harold Mark. Info re/ Groundwater use:

- All WAPA wells have been inactive since May 2009, when they instalked new reverse-osmosis facility ~~for~~ at the Desalination plant; operates by Seven Seas Corp.
  ⇒ All WAPA drinking water currently comes from a single intake (20'-30' from shoreline)
- GW Program is undertaking a recordkeeping effort for water withdrawal permitting process
- Met w/ Maritza Arauld
  - currently evaluating condition of wellheads
  - water quality is regulated by Env. Health Dept.
  - most wells do not have meters (Marco, Bates - no meters)
    - Mutual homes has meters, but no records

GWC 6/2/11

Location St Croix, VI Date 6/2/11

Project / Client St Croix Alumina / EPA

1515 More info from H. Mark and Marita Arauz

- Mutual Homes is listed in SDWIS
- Water delivery services ("standpipes") are listed in SDWIS as transient systems; estimated 20-25 people each
- Emmanuel's Water Service is drilling a new well in Barren Spot
- She is attempting to obtain well logs from owners and drillers
  - → No well logs available
  - ⇒ If she finds logs, I asked her to email them to me

1530 Met w/ Antonio Lewis

- He enters data in SDWIS
- Has sanitary surveys for many systems - we copied them

DPNR phone # (340) 773-1082

- Mutual Homes, other GW systems are still active.

Arnold V. Gr 6/2/11

Location St Croix, VI Date 6/2/11

Project / Client St Croix Alumina

1600 DPNR - Fish & Wetlands

- Met w/ Jed Brown
  Tiffany Cummins
- Nature Conservancy mapped out some wetlands, but resolution wasn't fine enough
  ⇒ Kemmit Louis
- Turtle nesting habitats all along beaches south shore
  - Leatherbacks (mostly W, SW)
  - Green
  - Hawksbill
- Ruth Cay is critical habitat for Ameiva Lizard
  ⇒ ES Specialist: Renata Platenburg
  (340) 775-6762
- St Croix wetlands mapped, Tiffany downloaded her data for us
- Consumption fishing at Krause Lagoon (from dock)
  Great Pond Bay
- Tiffany.cummins@dpnr.gov.vi

Arnold V. Gr 6/2/11

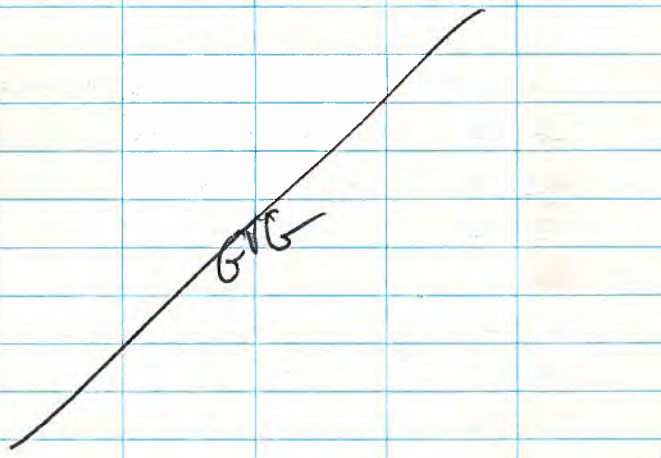
Location St Croix, VI Date 6/2/11

Project / Client St Croix Alumina / EPA

1645 Syed Syedali, Wetlands
- Contractor has site-specific info
- He will get info about the wetlands mapping and contact us.
- Only DPNR inhouse data is island-scale, not site-specific

1715 Harold Mark, DPNR
- Info about street addresses from Comprehensive ~~Zoning & Planning~~ (CVG) & Coastal Zone Planning

1725 Weston left DPNR offices; reconnaissance activities done.



6/2/11

Location St Croix, VI Date 9/8/11

Project / Client St. Croix Alumina / EPA

Mobilization for ESI Sampling

The following Weston personnel began mobilization. To ~~the~~ of equipment and supplies to the St Croix Alumina (SCA) site:

Ed Knyer, RST Leader
Alex Byrum, Site Safety Officer
Derrick Cobb, Soil Sampling Team
Michele Lortz, GW/SW/SD Sampling Team
Dan Carlson, Sample Mgmt / Scribe
Joe Schmidl, GW/SW/SD Sampling Team
Gerry Gilligan (arrived 4:30 pm), PM
Anthony Daniele (arrived 5:30 pm)

The property owner has set up their training building as our staging area and command post. The building is located just east of the Administration Building. It is equipped with A/C, WiFi, refrigerator, and bathrooms.

The facility has 24-hour security, everyone must check in at guard house to enter the property.

9/8/11

Location St. Croix, VI Date 9/9/11

Project / Client St. Croix Alumina / EPA

MOBILIZATION & WETLAND FRONTAGE

0740 WESTON ARRIVED ON SITE TO CONTINUE MOBILIZATION.

0800 MALVINA JACKSON OF SCRG (HR DIRECTOR) CONDUCTED THE FACILITY ORIENTATION MEETING FOR ALL WESTON EMPLOYEES (SEE PREVIOUS PAGE). - SEE HAND-OUTS IN FILE FOR DETAILS

0830 ORIENTATION MEETING COMPLETED. WESTON CONTINUED EQ/SUPPLY MOBE.

0930 ALPHONSUS DENIS OF SCRG ESCORTED WESTON MEMBERS G. GILLILAND, J. SCHMIDL, AND M. LORTZ TO THE THREE INTERNAL GATES AT THE FACILITY. ALL GATE OPENINGS MUST BE REPORTED TO SECURITY AND RECORDED IN THE LOGBOOK PROVIDED.

1030 BACK AT COMMAND POST; J. SCHMIDL AND M. LORTZ PREPARING FOR WETLAND WORK.

1200 JS & ML DEPART FOR WETLANDS EVALUATION. SEPARATE LOGBOOK BY JOE SCHMIDL.

1330 DC & GG OFF SITE FOR SUPPLIES/LUNCH. OTHERS TAKING INVENTORY. STILL WAITING FOR MUCH EQ (SHOULD ARRIVE TODAY, ACCORDING TO FEDEX TRACKING).

9/9/11

Location ST CROIX, VI Date 9/9/11

Project / Client ST CROIX ALUMINA / EPA

NOTE: ILDEFONSO ACOSTA, EPA, CALLED EARLIER TODAY TO NOTIFY US THAT EPA (ALL) WILL NOT ~~ARRIVE UNTIL~~ TRAVEL UNTIL MONDAY DUE TO TS MARIA. ⇒ BEGIN RAD SCREENING TUESDAY.

1430 FOLLOW-UP: DAVE ROSOFF AND MIKE FERRIOLA CALLED:

- MIKE WILL BE ARRIVING AT ~2:30 MONDAY AFTERNOON; WHEN HE ARRIVES, HE WILL NEED HELP GETTING ~~THE~~ THE EQ FROM UPS TO SITE - SEND 2 VEHICLES.
- OK TO BEGIN SW/SD SAMPLING IN MANGROVE AND CHANNEL AREAS; ALSO BG SOIL SAMPLING.
- OTHER EPA PERSONNEL WILL ARRIVE TUESDAY MORNING AT SITE

1500 WESTON CONTINUED MOBILIZATION TO SITE - TRACKING DOWN EQ HUNG UP AT UPS AND SHIPMENTS ARRIVING TODAY

1800 ALL WESTON PERSONNEL OFF SITE.

9/9/11

Location St Croix, VI Date 9/10/11

Project / Client St. Croix Alumina / EPA

Mobilization & Well Recon & pH Prelim

0800 Weston arrived on site (GG, EK, JS, DC, AD, ML, DCobb, and Aaron)
- Weather: partly cloudy, showers, hot - humid; TS Maria expected later.
- AB conducts brief safety meeting
- Mobilizing eq/supplies, which arrived at Hotel last night.

0830 Rearranged command post for logical progression of work activities.
- DC doing scribe
- Sampling eq at front, sample mgmt will come through back door.

0900 GG notified Zak - Weston to collect # samples for pH procedure testing today - also measuring DTW and depth of wells. Zak says OK.

0930 JS & AD out to get reference samples for pH testing.
- ML & DCobb steam-cleaning w/l probe and o/w probe

1000 ML & DCobb out to locate remainder of wells, measure w/levels and depth
- JS and AD return w/ reference soil; Red

GG 9/10/11

Location St Croix, VI Date 9/10/11

Project / Client St Croix Alumina / EPA

1030 JS & AD also tested pH of puddle ~~at~~ at RMA pile w/ pH paper = 10-11 (see below for more)

1045 JS & AD back to collect water for pH testing w/ meter
- pH = 10.19

1100 pH readings of RMA samples
- RMA from pile = 10.1
- Red soil across road from pile = 8.64

1115 ~~Tests~~ end Nitric acid volume test for Red Mud puddle water
- 60 mL to bring pH from 10.19 to 1.5

1130 ML & Cobb out to hardware store and continue well recon (separate GW logbook)

1140 Alex B out to scope out Route-to-Hospital

1300 Activities for this afternoon include further pH preliminary evaluations (AD & JS) and continuation of well recon (ML & DCobb). Others working SMO & safety details.

GG 9/10/11

Location ST CROIX, VI Date 9/10/11

Project / Client ST CROIX ALUMINA / EPA

1430 PH READINGS (METER-TESTED):
- RED MUD SETTLING POND = 9.71
- UPPER COOLING POND, SOUTH END = 8.22
- LOWER COOLING POND, NW CORNER = 8.17

⇒ EXPECT ALL SW SAMPLES TO BE NON-DG

1500 AD, D CARLSON, & JS OFF SITE; EK & GG PICK UP LUNCH

1530 EK & GG RETURN

1600 NOTES RE GW WELLS (SEE GW LOGBOOK FOR MORE DETAILS):
- GM-22: BURIED BY LIMESTONE RUBBLE?
- G-1: DAMAGED, NO INNER CASING, AND SILTED UP (ONLY ~1' OF WATER)
- H-1: 6" OF FLOATING PRODUCT
- G-7: COULD NOT LOCATE; TRY AGAIN MONDAY
- GM-13D: RED-MUD WASHOUT AREA

1600 AB, ML, & D COBB OFF SITE

1700 EK & GG OFF SITE.

GMG

9/10/11

Location ST CROIX, VI Date 9/12/11

Project / Client ST CROIX ALUMINA / EPA

SW/SD & BG SOIL SAMPLING

0710 WESTON ARRIVED ON SITE TO BEGIN SAMPLING EVENT
- GERRY GILLILAND
- EA KNUFA
- ALEX BYRUM
- JOE SCHMIDL
- DAN CARLSON
- MICHELE CORTE
- DERRICK COBB
- ANTHONY DANIELS

WEATHER: CLOUDY, SHOWERS, ~80°F

0715 OPEN UP COMMAND POST, BEGIN ~~SAFETY~~ GP SET UP

0720 TAILGATE SAFETY MEETING BY A. BYRUM; PRIMARY CONCERNS:
- HEAT STRESS - WEAR HATS, GLASSES, TAKE BREAKS, FLUIDS, SUNSCREEN
- SLIP/TRIP/FALL - PILE & MANGROVES
- CHEMICAL: METALS TOXICITY, AND RAD ISSUES
- DO NOT TRACK RED MUD OFF SITE; KEEP OUT OF & OFF VEHICLES
- BIOLOGICAL HAZARDS (PLANTS & ANIMALS)

9/12/11

Location St Croix, VI Date 9/12/11

Project / Client SCA SITE

0755 SAFETY MEETING ENDED
0800 SAMPLING TEAMS ARE DECONNING AUGERS (FOR BG SOILS) AND PACKING TRUCKS
0900 GG NOTIFIED ZAK ZAKARIA OF SCRG OF TODAY'S SCHEDULED ACTIVITIES (BG SOIL; SW/SD COASTAL/CHANNEL) - OK; RECORD GATE OPENINGS
0910 SYNCH-ING THE GPS DEVICES WITH THE EXISTING ~~WAYPOINTS~~ PROPOSED LOCATIONS FILE.
0930 SAMPLING TEAMS DEPART TO BEGIN SAMPLE COLLECTION
0945 SPOKE W/ ADLY MICHAEL, REGION 2 SAMPLE COORDINATOR:

- METALS (SOIL & AQUEOUS) DO NOT REQUIRE EXTRA VOLUME FOR MS/MSD
- SVOCs & AROCLORS CAN BE COMBINED INTO ONE 8-OZ JAR (SOILS)
- MS/MSD SAMPLES - ONE EXTRA 8-OZ JAR FOR AROCLORS
- HE'S STILL WAITING FOR THE DESA SOIL PERMIT; WILL FORWARD TO US WHEN AVAILABLE - NEED BY TOMORROW.

9/12/11

Location St Croix, VI Date 9/12/11

Project / Client SCA SITE

1030 ANTHONY HAS REPORTED THAT THERE IS A REFUSAL AT @ 4 INCHES AT BG-S01; NO SUBSURFACE SAMPLE
1015 LATE ENTRY: ADLY SENT THE SOIL PERMIT.
1100 ALEX REPORTS REFUSAL AT BG-S02 @ 16 INCHES
1115 THUNDERSTORMS ARE BEGINNING TO MOVE THROUGH OUR AREA, ALONG WITH HEAVY RAINS
1200 TIDES ARE AFFECTING THE COLLECTION OF SOME COASTAL SAMPLES.
1245 AD & DCORE REPORT BACK THAT BACKGROUND LOCATIONS ARE MANGROVE SWAMPS. NO COLLECTION THERE: ~~AT~~ CAN
⇒ BG LOCATIONS BG-S03/4/5/6 MOVE FURTHER NORTH.
1330 DCORE AND AD REPORT BACK THAT THE ENTIRE BACKGROUND AREA CONTAINS ONLY A THIN LAYER OF SOIL (MAX. 16 INCHES) ON TOP OF LIMESTONE
⇒ NO BG SUBSURFACE SOIL SAMPLES (EXCEPT BG-SS02 FROM 16-INCH DEPTH)

9/12/11

Location St Croix, VI Date 9/12/11

Project / Client St Croix Alumina

1340 NOTE: WESTON IS RECORDING PH READINGS AND SMO INFO ON SEPARATE LOG SHEETS.

1430 ALPHONSUS DENIS DROPPED OFF TWO SETS OF KEYS FOR US, TO OPEN GARAGE, TRAINING CTR, INTERNAL GATES → GG SIGNED FOR KEYS.

1455 JS REPORTS THAT THEY'RE HAVING TROUBLE CALIBRATING THE YSI. WE'LL GET PH READINGS BACK HERE AT COMMAND POST, ON SW SAMPLES FOR TODAY

1530 THE SOIL PERMIT FROM DESA IS JUST PAGE 1 - ADLY MICHAEL SAYS IT'S OK TO SHIP THE SAMPLES WITH IT.

1545 ADLY CALLED BACK - OK TO SHIP SAMPLES WITH P-1 OF SOIL PERMIT - WILL CONFIRM W/ LAB DIRECTOR TOMORROW.

1600 WE HAVE ONE COOLER READY TO GO - TO THE DESA LAB.

1610 EK & DANC TO FEDEX W/ FIRST SAMPLE SHIPMENT.

1620 CHECK-IN WITH JS - TWO MORE LOCATIONS TO GO - AD & AB GO TO HELP THEM.

GVG 9/12/11

Location St Croix, VI Date 9/12/11

Project / Client St Croix Alumina

NOTES ON PH PROCEDURES:

- COLLECTING ADDITIONAL VOLUME (EVG) OF EACH SOLID SAMPLE FOR PH READING
- WEIGH 20G AT COMMAND POST
- MIX W/ 20 mL OF DI WATER
- SHAKE 5 MINUTES
- LET STAND >1 HOUR
- READ PH AND TEMP

(SUMMARY OF PH SOP METHOD 9045D - SOIL & WASTE PH)

AQUEOUS SAMPLES:

- COLLECT EXTRA VOLUME, OR DIRECT-READ.
- DIRECT PH READING AT COMMAND POST; TEMP ALSO.
- GW SAMPLES WILL BE LOGGED AT LOCATION, ON PURGE FORMS.

GVG

GVG 9/12/11

Location St Croix, VI Date 9/12/4

Project / Client St Croix Alumina / EPA

1630 Mike Ferriola arrived at airport UPS, asked for our help picking up remainder of project EQ.
1700 UPS will not release the EPA packages. Mike must go through Customs tomorrow.
1710 Weston's packages are also still not cleared - I refused them and do not want.
→ These packages contain pin flags and flagging tape
1745 GG & DCobb back at site
1800 Sample collection completed for today. Summary next page.
⇨ Sample Management
1900 Further AA testing on today's samples (see log sheet)
1930 Weston off site.

GVG

9/12/4

Location St Croix, VI Date 9/12/11

Project / Client St Croix Alumina / EPA

Daily Sample Summary, p. 1

Sample Type	ID Number	Depth	Time
BG Soil	BG-S01	0"-6" or 4"	1000
	BG-S02	0"-6"	1035
	BG-SS02	0"-6" or 16"	1050
	BG-S03	0"-6"	1300
	BG-S04	0"-6"	1347
	BG-S05	0"-6"	1330
	BG-S06	0"-6"	1335
* Refusal at all locations, max = 16" *			
SW	MAN-SW08	0	1615
	MAN-SW09		1045
	MAN-SW10		1120
	MAN-SW11		1145
	MAN-SW12		1412
	MAN-SW13		1530
	MAN-SW14		1715
	MAN-SW15		1700
	MAN-SW16		1430

(over)

9/12/11

Location St Croix, VI Date 9/12/11

Project / Client St Croix Alumina

Daily Sample Summary, p. 2

Type	Number	Depth	Time
Sediment	MAN-SD08	0-6"	1620
	MAN-SD09	0-6"	1047
	MAN-SD10	0-6"	1125
	MAN-SD11	0-6"	1147
	MAN-SD12	0-6"	1415
	MAN-SD13	0-6"	1533
	MAN-SD14	0-6"	1720
	MAN-SD15	0-6"	1705
	MAN-SD16	0-6"	1435

Totals: 7 Soil / 9 SW / 9 Sed

Dan C relinquished ~~the~~ (GVG) samples to FedEx @ 1630

Airbill # 8736 9394 8787

(Note: latter samples will ship tomorrow)

(GVG)

Carol V. GE 9/12/11

Location St Croix, VI Date 9/12/11 (13) (GVG)

Project / Client St Croix Alumina

SW/SD Sampling (Day 2) & RMA Prep

0705 Weston arrived at the SCRG facility
- GG, EK, JS, ML, DanC, AD
- AB & DCobb to hardware store for supplies

0715 Setting up at Command Post

0730 Weather partly cloudy, muggy, 80's

0745 GG, JS, & ML go out to recon the background SW/SD samples; access through the landfill.
- All locations are accessible, mangrove swamp area.

0845 Back at command post, Jose Acosta & Nidal Azzam of EPA arrived on site.
- GG fills in Idle on progress
- Waiting for EPA equipment still; DR, MF, CD (EK)

0930 SW/SD teams head out for sampling at Alu Cruz Channel.

Carol K GE 9/13/11

Location St Croix Date 9/13/11

Project / Client St Croix Alumina

0940 GG escorts Ilde Acosta (IA) and Nidal Azzam (NA) to Area B.
1000 IA and NA continue RECON of Area B; GG observes channel sampling (ACC-SW02 location is inaccessible - need machete)
1020 GG back to command post.
EPA has arrived with EQ
Dave Rosoff
Cris D'Onofrio
Mike Ferriola
1030 Nidal & I. Acosta back to command post
- SCRG M. Jackson, Jay
Present orientation for EPA
1100 Planning w/ EPA, and update.
1130 Our plan moving forward:
- EPA to send both teams to RM Area A (pile) to ~~screen~~ perform RAD screening this afternoon
- RAD screening at Lower Cooling Pond, Upper Cooling Pond, and West Ditch, and RM Settling Pond tomorrow morning.

9/13/11

Location St Croix, VI Date 9/13/11

Project / Client St Croix Alumina

1145 EPA preparing the ~~sampling~~ screening equipment; AB & DCobb will join them to flag locations.
1245 SW/SD team has finished collecting ACC samples, except:
- SW02/SW03 inaccessible
⇒ modify location to small outfall stream, as downstream as possible, if possible.
1300 ~~Rod~~ JS & GG prepped samples for pit testing.
1315 EPA & Weston out to RM Area A.
1330 SW/SD team back out to collect BG samples.
1400 GG meets Narcisse Abraham of Malcom Pirnie Inc. (MPI) to open wells.
1415 Opened GM-14 (southern end of old plant, along ACC).
1420 Opened VW-16 (on way to garage) 4-inch, single cased, fiberglass

9/13/11

Location St Croix, VI Date 9/13/11

Project / Client St Croix Alumina

1425 OPENED VW-27 (BEHIND PIPELINE NW FROM COMMAND POST) - 4-INCH SINGLE CASING, FIBERGLASS

1430 OPENED VW-25 (FORMER TANK AREA NW OF MOLASSES TANKS)

1440 OPENED ~~ACCESS~~ MW WELL AT VW-37 (ACCESS ROAD, WEST SIDE OF RMA); 4-INCH MW, FIBERGLASS

1445 VISITED G-7, SOUTH OF VW-37 INSIDE LOCKED GATE OF MONITORING STATION (WEATHER).

1500 SAMPLE MANAGEMENT TO MEET FEDEX DEADLINE (4:30 PM)

1625 DAN, GERRY, & ANTHONY ~~BROUGHT SAMPLES TO FED~~ LEFT SITE FOR FEDEX

1645 RELINQUISHED SAMPLES TO FEDEX

- ORGANICS (SVOCs & PCBs) TO CHEMTECH AIRBILL # 8736 9394 8798
- INORGANICS (METALS, CHLORIDES, TOC, GRAIN SIZE) AIRBILL # 8747 3102 7524

1715 BACK AT SITE. EPA & WESTON ARE DISCUSSING PLANS.

9/13/11

Location St. Croix, VI Date 9/13/11

Project / Client St Croix Alumina

1800 EPA & WESTON PLANS FOR TOMORROW:

- TWO SCREENING/SAMPLING TEAMS IN THE SW/SD LOCATIONS @ LCP & UCP AND WEST DITCH
- STAKING LOCATIONS ON THE PILE (PROPOSED LOCATIONS FROM MAP) AND SCREENING 50' x 50' AROUND EACH
  - ⇒ SAMPLES TO BE COLLECTED AT HOT SPOT WITHIN EACH GRID
  - ⇒ SURFACE AND SUBSURFACE SAMPLES TO BE COLLECTED IN RMA & RMB
- ON SITE AT 0700 TOMORROW.

1830 AB, ML, DCOBB, AD & JS OFF SITE. EPA OFF SITE ALSO.

1900 GG, ~~EK~~, & DANC OFF SITE

GVC

9/13/11

Location ST CROIX, VI Date 9/13/11

Project / Client ST CROIX ALUMINA

DAILY SAMPLE SUMMARY

TYPE	NUMBER (ID)	DEPTH	TIME
SW	ACC-SW01	0"	0952
	ACC-SW04	↓	~~1020~~ 1012
	ACC-SW05		1107
	ACC-SW06		1135
	ACC-SW07		1147
	ACC-SW52		1212
	BG-SW53		1422
	BG-SW54		1412
	BG-SW55		1447
	BG-SW56		1515
SED	ACC-SD01	0-6"	0957
	ACC-SD04	↓	1020
	ACC-SD05		1110
	ACC-SD06		1140
	ACC-SD07		1150
	ACC-SD52		1215
	BG-SD53		1425
	BG-SD54		1415
	BG-SD55		1453
	BG-SD56		1518

TOTALS: 10 SW / 10 SEDIMENT

9/13/11

Location ST CROIX, VI Date 9/~~13~~14/11 (GVC)

Project / Client ST CROIX ALUMINA

SW/SD SAMPLING (DAY 3) & RMA PREP (DAY 2)

0700 WESTON ARRIVED ON SITE
- GG, EK, AD, ML, AB, JS, DANC, DCOBB

0710 EPA ARRIVED ON SITE
- DAVE ROSOFF (DR), ILDE ACOSTA (IA), NIDAL AZZAM (NA), CRIS D'ONOFRIO (CD), AND MIKE FEARIOLA (MF)

0720 AB HOLDS TAILGATE SAFETY MEETING, MAINLY:
- HEAT STRESS; STAY DRY; DRINK FLUIDS; TAKE BREAKS

0730 EPA TO SCREEN BACKGROUND AREA FIRST; ~~THEN~~ (GVC) WHEN THEY RETURN, WE WILL BEGIN SCREENING/SAMPLING AT THE SW/SD LOCATIONS

0840 EPA BACK FROM ~~CO~~ (GVC) SCREENING THE BACKGROUND AREA
- DOWNLOADING THE DATA
- MIKE F TRANSFERS THE FILES TO DANC ~~FOR~~ UPLOAD TO SCRIBE (DAILY).

0845 TEAMS / TASKS:
- AD & ML - SW/SD TEAM 1, W/IA & NA
- GG & JS - SW/SD TEAM 2, W/DR & MF
- AB - SSO AND GATES FOR SW/SD TEAMS
- DCOBB & EK - STAKING LOCATIONS IN RMA

9/14/11

Location ST CROIX, VI Date 9/14/11

Project / Client ST CROIX ALUMINA

1005 ARRIVED AT PROPOSED LOCATION ~~ACC-SD~~ MAN-SW17 (ALMOST)

1015 RAD SCREENING ← BKG

1020 PH OF SW = 8.65 (RECORDED AT SAMPLE MAN-SW17 LOCATION)

1022 COLLECTED SURFACE WATER SAMPLE MAN-SW17 PH = 8.65

1025 COLLECTED SEDIMENT SAMPLE MAN-SD17 C. SAND W/RED MUD

1044 ~~SW~~ COLLECTED SW SAMPLE LCP-SW31 PH = 8.85

1050 COLLECTED SEDIMENT SAMPLE LCP-SD31 CONTAINS RED MUD

NOTE: NO READINGS ABG ON THE RAD SCREENING (SW AND SD) AT EITHER LOCATION (READINGS ARE 1.5 - 3 KCPM, GENERALLY, IN THIS AREA)

1115 COLLECTED LCP-SW32 PH = 8.05

1120 COLLECTED LCP-SD32 ½-INCH LAYER OF RED MUCK, BROWN BENEATH: WETLAND DEPOSITS

Gerald V. Gilliland 9/14/11

Location ST CROIX, VI Date 9/14/11

Project / Client ST CROIX ALUMINA

PHOTO LOG (GG's iPHONE)

SCA-~~SW~~-09-14-01 LOOKING SE AT LOCATION MAN-SW17

SCA-09-14-02 LOOKING NW AT LOCATION LCP-SW31

SCA-09-14-03 LOOKING SW AT PH READING FOR LCP-SW32

SCA-09-14-04 COLLECTION OF SEDIMENT SAMPLE MAN-SD20

SCA-09-14-05 RED MUD AT LOCATION ~~MAN-SD~~ LCP-SW33; SEDIMENT SAMPLE LCP-SD33

NOTE: ALL PHOTOS TAKEN BY GERRY GILLILAND WITH ~~AN~~ HIS IPHONE.

SAMPLING NOTE: PH READINGS ARE DIRECT MEASUREMENTS AT EACH SAMPLING LOCATION FOR SW SAMPLES.

NOTE 2: ALL SEDIMENT AND SOIL SAMPLES ARE 0"-6" UNLESS OTHERWISE NOTED.

9/14/11

Location St Croix, VI Date 9/14/11

Project / Client St Croix Alumina

1130 Collected MAN-SW20
- pH = 7.85
- MANGROVE AT EDGE OF LOWER, FORMER WEST DITCH
- 4" STANDING WATER
- RAD SCREENING = BACKGROUND

1140 Collected MAN-SD20
- WETLANDS MUCK, VERY ORGANIC
- SATURATED TO EXCESS
- 0-6", TOP INCH WAS RED, DK-GRAY BELOW; CLAY & SILT

1200 Collected LCP-SW33
- pH = 8.05
- ~~RED~~ ENG AREA IS COVERED IN RED MUD NODULES ~3" THICK AT EDGE OF LCP

1205 Collected LCP-SD33
- RED MUD NODULES; LAYER IS UP TO 3" THICK
  0-3" DENSE RED MUD
  ↑ DEPTH OF SAMPLE
- RAD SCREENING ~2.5
- RAD SAMPLE COLLECTED

9/14/11

Location St Croix, VI Date 9/14/11

Project / Client St Croix Alumina

1230 Collected ~~LCP~~ MAN-SW21
- pH = 7.62
- MANGROVES IN FORMER WEST DITCH
- NO EVIDENCE OF RESIDUAL RED MUD ON SURFACE (NO DISCOLORATION)

1235 Collected MAN-SD21
- NO EVIDENCE OF RESIDUAL RED MUD
- MED, ~~GR-BROWN~~ GRAY-BROWN WETLANDS MUCK (SATURATED SILT/CLAY)
- THICK W/ MANGROVES
- DEPTH = 0-6"

NOTE: LOCATIONS MAN-SW20 AND MAN-SW21 HAD MICKEY, WHITE ~~FILM~~ FILM (LEACHATE) ON SURFACE OF WATER (SAMPLES COLLECTED IN SOUTHERN EXTENSION OF WEST DITCH)

1300 Back to command post for lunch & sample management.

1545 AB takes over for GG on SW/SD-2

1550 - A. Byrum taken over logbook - Drive to location LCP-SD/SW-34 to collect sediment & surface water.

9/14/11

Location St Croix, VI Date 9/14/11

Project / Client St Croix Alumina

1620 - collected UCP - 34 (SW)
pH = 8.18
upper cooling pond, red mud bank
near waterfall - 8" standing water
3.161 K counts/min = 3161 cpm
point generic 117
~~1632~~ collected WES - SW-22/23 Dup
1632 pH = 8.05
Ditch, brown sediments, red
mud blob next to water - green
~~6864~~ cpm 3648 cpm
mud on bank side - E side of ditch
had to accurate GPS location
1700 collected UCP - SW-35
pH = 8.17
Red mud bank, dem water,
red mud in sediments in mud flat
~~3844~~ cpm 6100 cpm
1722 collected WES - SW-24
8.10 = pH
3677 cpm
west ditch - 3-4 ft of standing water
brown/black sediments, seaweed.

Location St Croix VI Date 9/14/11

Project / Client St Croix Alumina

1738 - collected UCP - SW-~~37~~.37.
pH = 8.79
12931 cpm
Red mud, heavy silting, next to
the small island in the UCP.
1800 - Completed sampling for the day.
Drove back to training building w/
5 samples collected.

1820 SW/SD TEAM BACK TO TRAILER,
G GILLILAND TAKES BACK LOGBOOK; REVIEW
LEADS TO FOLLOWING LATE ENTRY:
1828 LATE ENTRY - A. Byrum -
Sediment sample times are
approximately 5 minutes after
the surface water samples at
each separate location.
UCP - SD - 34 - 1625 hrs
WES - SD - 22/23 - 1637 hrs
UCP - ~~SW~~ SD - 35 - 1705 hrs
WES - SD - 24 - 1727 hrs
UCP - SD - 37 - 1743 hrs

9/14/11

Location St Croix, VI Date 9/14/11

Project / Client St Croix Alumina

~~1820~~ 1830 G. GILLILAND TAKES BACK THE LOGBOOK FROM A. BYRUM

- OTHER SW/SD TEAM RETURNS WITH SAMPLES

⇒ LOCATIONS SW39, SW40, ~~SW43~~ SW45, SW41

⇒ SW/SD RAD @ LOCATION SW45

(COLLECTED BY AD & ML)

1900 LATE ENTRY:

DAN C DELIVERED THE REMAINDER OF YESTERDAY'S SAMPLES TO FEDEX, RELINQUISHED AT 1645

- ONE COOLER TO EPA-DESA AIRBILL # 873693948802
- ONE COOLER TO CHEMTECH AIRBILL # 873693948813

1915 GG MET W/ EPA TO DISCUSS TOMORROW'S ACTIVITIES (SEE NEXT PAGE).

1945 WESTON OFF SITE. EPA DEPARTED JUST PRIOR.

9/14/11

Location St Croix, VI Date 9/14/11

Project / Client St Croix Alumina

PLANS FOR 9/15/11 (SW/SD)

1) COLLECT MAN - SW18
MAN - SW19
UCP - SW36
(ADD ORGANICS)
UCP - SW38
WES - SW25
RMS - SW46
RMS - SW47

MOVE RMS - SW42/43 TO NW CORNER OF SETTLING POND

(TOTAL OF 8 LOCATIONS)

DELETE RMS - SW44

2) BEGIN SAMPLING ON RED MUD DISPOSAL AREA A

3) BEGIN AT 7:00 AM

GG

9/14/11

Location St Croix, VI Date 9/14/11

Project / Client St Croix Alumina

Daily Sample Summary

Type	ID	Depth	Time
SW	MAN-SW17	0"	1022
	MAN-SW20		1130
DUP	WES-SW22		1632
	WES-SW23		1633
	WES-SW24		1722
	LCP-SW26		1019
	LCP-SW27		0957
	LCP-SW28		1055
	LCP-SW29		1051
	LCP-SW30		1133
	LCP-SW31		1044
	LCP-SW32		1115
	LCP-SW33		1200
	UCP-SW34		1620
	UCP-SW35		1700
	UCP-SW37		1738
	UCP-SW39		1720
	UCP-SW40		1740
	UCP-SW41		1805
	RMS-SW45		1817
	ADP-SW48		1218
	ADP-SW50		1248
	ADP-SW49		1205

Location St Croix, VI Date 9/14/11

Project / Client St Croix Alumina

SED	ADP-SD50	0"-6"	1251
	ADP-SD51		1320

Type	ID	Depth	Time
SW	ADP-SW51	0"	1318
SED	MAN-SD17	0"-6"	1025
	MAN-SD20		1140
	MAN-SD21		1235
	WES-SD22		1637
	WES-SD23		1638
	WES-SD24		1727
	LCP-SD26		1021
	LCP-SD27		1000
	LCP-SD28		1037
	LCP-SD29		1054
	LCP-SD30		1136
	LCP-SD31		1050
	LCP-SD32		1120
	LCP-SD33		1205
	UCP-SD34		1625
	UCP-SD35		1705
	UCP-SD37		1743
	UCP-SD39		1725
	UCP-SD40		1745
	UCP-SD41		1810
	UCP-SD45		1820
	ADP-SD48		1220
	ADP-SD49		1207

Location St Croix VI Date 9/15/11

Project / Client St Croix Alumina

0700 WESTON ARRIVED ON SITE. SETTING UP FOR:
- D COBB, A. BYRUM ON SOIL PILE FOR SAMPLING AND SCREENING
- M LORTZ & A DANIELS TO DO SW/SD SAMPLING
- DAN C AND JOE S DOING SAMPLE MGMT.
- EK TO JOIN LATER (FIXING A FLAT TIRE)

0730 EPA ARRIVED, TEAMS GETTING READY TO GO.

0815 TEAMS OUT (1) AD & ML WITH ILDE ACOSTA OF EPA (2) DC & AB w/ DR, MF, NA, & CA

0820 QUICK SAFETY BRIEFING
⇒ HEAT STRESS ON PILE IS THE PRIMARY CONCERN (LOTS OF FLUIDS, SHADE)

0830 TEAMS ARE @ SAMPLING, SMO BACK AT COMMAND POST.

NOTE: DESA COOLER FROM YESTERDAY GOT HELD UP IN MEMPHIS; ORGANICS COOLER ON WAY TO LAB.

Gerald V. Gill 9/15/11

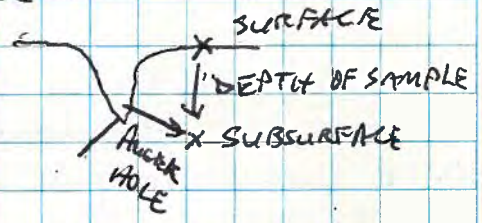
Location St Croix, VI Date 9/15/11

Project / Client St Croix Alumina

0950 SOIL TEAM HAS TROUBLE GETTING RODS OUT OF HOLE; LOST CUTTING SHOE; RED MUD IS VERY FINE & DENSE.

1000 GC AT PILE. STILL STRUGGLING TO REMOVE CORE BARREL FROM HOLE.

⇒ SAQAPP MODIFICATION (RMA WASTE SAMPLING)
- COLLECT SURFACE SAMPLE AT CHOSEN LOCATION (0"-3")
- AUGER IN ~~STRAIGHT~~ DIAGONALLY AT EDGE OF NEARBY CREVASSE, COLLECT SOIL FROM AUGER AS COLLECTED FROM UNDER THE SURFACE



- AS LONG AS DEPTH BELOW SURFACE IS > 2', COLLECT IT (TRY TO GO DEEPER USING CREVASSE)

Gerald V. Gill 9/15/11

Location ST CROIX, VI Date 9/15/11

Project / Client ST CROIX ALUMINA

1130 FINISHED COLLECTING 3 SURFACE SAMPLES ON PILE, TIME TO BREAK FOR LUNCH

1200 BACK TO COMMAND POST

1210 INFO FROM MIKE / DAVE:

- MAIN ISOTOPE READ BY SAM ON THE PILE IS THORIUM 232
- OTHER ISOTOPES (URANIUM) ARE KNOWN TO BE ~~THERE~~ BASED ON THE ASPECT REPORT, BUT SAM IS NOT READING THEM
- "SAM" IS THE SAM-940 GAMMA ISOTOPE IDENTIFIER.

1215 OFF SITE FOR LUNCH / ERRANDS / SUPPLIES

1330 TEAMS ARE BACK TO SAMPLING JS, GG, AND DAN C ARE PACKING UP SHIPMENTS FOR TODAY'S FEDEX

1600 FIVE DESA COOLERS, TWO CHEMTECH

1645 DAN C & JOE S RELINQUISHED SAMPLES TO FEDEX

DESA AIRBILL # 874731027535

CHEMTECH AIRBILL # 873693945170

9/15/11

Location ST CROIX, VI Date 9/15/11

Project / Client ST CROIX ALUMINA

1720 DAN C AND JS BACK TO THE SITE. JS READING PH

1740 PH READINGS DONE, INSTRUMENT ON CALIBRATION FOR BUFFERS 7 & 10

ORION MODEL 230A

S/N 009995

TAG # RFW20601

* SAMPLE RMA-WST02B PH = 11.88

ALL OTHER PH READINGS BELOW 11 (SEE LOG SHEET)

⇒ SUBSURFACE SAMPLE IS THE ONLY ONE THAT WILL GO DG SHIPPING

1800 SAMPLING TEAMS BEGIN TO RETURN AND WE'RE PROCESSING SAMPLES

1830 MEET WITH EPA, WE'LL COLLECT ~~ADDITIONAL~~ ONE ~~SAM~~ TWO REMAINING SAMPLES IN AREA A TOMORROW

⇒ THEY'LL NEED 5 PEOPLE IN AREA A FOR WASTE SAMPLING

9/15/11

Location ST CROIX, VI Date 9/15/11

Project / Client ST CROIX ALUMINA

SW/SD Summary

TYPE	ID #	DEPTH	TIME
SW	MAN-SW19	0"	1012
	UCP-SW36	↓	1602
	UCP-SW38		1434
DUP [	RMS-SW42		0901
	RMS-SW43		0902
	RMS-SW46		0825
SED	MAN-SD19	0"-6"	1016
	UCP-SD36	↓	1605
	UCP-SD38		~~0907~~
	RMS-SD42		0907
	RMS-SD43		0908
	RMS-SD46		0828
	RMS-SD47	↓	0855

(SEE SW/SD LOGBOOK & LOG SHEETS)

WASTE SAMPLES FROM RMA WERE ALSO COLLECTED TODAY, FROM ~~11~~ 9 LOCATIONS

[RMA-WST02 A/B, RMA-WST03 A/B, RMA-WST04 A/B, RMA-WST12 A/B, RMA-WST05 A/B, RMA-WST06 A/B, RMA-WST13 A/B, RMA-WST20 A/B, RMA-WST18 A/B]

SEE RST LOGBOOK #1

9/15/11

Location ST CROIX, VI Date 9/16/11

Project / Client ST CROIX ALUMINA

0700 WESTON ARRIVED ON SITE

WEATHER: HOT & SUNNY, HIGH 80°Fs

0715 ALEX BYRUM CONDUCTS THE TAILGATE SAFETY MEETING:

- LONG HOURS ON PILE - TAKE MANY BREAKS & FLUIDS
- CONTAIN RED DUST (VERY DRY CONDITIONS ON PILE) ⇒ HIGH PH.
- EXTENDED LUNCH BREAK, OUT OF HEAT FOR AWHILE.

0750 EPA ARRIVED ONSITE: MIKE FERRIOLA AND NIDAL AZZAM

- SOIL TEAM GETTING READY

0800 JS AND DAN C PREPARING SAMPLES FROM YESTERDAY — JS DOING PA PREP & READINGS

0830 TEAM ON SOIL PILE INCLUDES MF & NA FROM EPA w/ EK, AB, DCOBB, ML, & AD FROM WESTON

0935 JS HAS FOUND SEVERAL SAMPLES WITH PH > 11.00 FROM RED MUD AREA A ⇒ DG SHIPPING

LATE ENTRY: JS SCREENED 3 BAGS OF IDW - NO RAD READINGS ABG, @ 0830

9/16/11

Location ST CROIX, VI Date 9/16/11

Project / Client ST CROIX ALUMINA

I, JOE ACOSTA AND DAVE ROSOFF ADDED THE FOLLOWING SAMPLES THIS MORNING, FOR COLLECTION NEXT WEEK:

- 6 SURFACE SOIL LOCATIONS IN DRAINAGE PATHS SOUTH OF RMA AND WEST OF RUINS (MOVE FROM AREA B)
- 4-5 SW/SD SAMPLES IN THE DRAINAGE PATHWAY FROM ASH DISPOSAL POND THROUGH RMB AND INTO LOWER COOLING POND (POSSIBLE)

1030 GG RETRIEVES LOCATIONS FROM THE SOIL TEAM

1200 SOIL TEAM RETURNS - 7 LOCATIONS ALREADY.

1300 PACKAGING THE SAMPLES; JS MAKES THE DECISION TO SHIP SAMPLES AS "PROCESSED BAUXITE"; THEREFORE, SOIL PERMITS SHOULD NOT BE REQUIRED ⇒ APPLIES TO RED MUD ONLY; IF RM IS MIXED W/ SOIL, PERMIT REQUIRED

Gerald V. Gio 9/16/11

Location ST CROIX, VI Date 9/16/11

Project / Client ST CROIX ALUMINA

1500 DR, IA, SCA FLAGGING LOCATIONS - SCREENING RAD - IN AREA B

1515 GG OUT TO MEET FDA

1520 GPS OF RMB-WSTNEW-1 (RAD COUNT ~ 29); SW END OF AREA B ⇒ UPDATED RMB-WST37

1530 RAD SCREENING IN VICINITY OF RMB-WST34 (NO UPDATE; CLOSE ENOUGH)
- FLAG = 32,217 CPM

1550 UPDATED FEATURE
RMB-WST36
RAD = 38,766 CPM

1555 SPILLWAY CLEANED FROM UCP TO LCP - JUST SURFACE STAINING 3,000 - 4,000 CPM.

1425 UPDATED RMB-WST36
- RAD COUNT = 38,270 CPM

1435 WEST DITCH OFF ADP
- RAD = 23 - 24,000 CPM
- UPDATED RMB-WST39

Gerald V. Gio 9/16/11

Location St Croix, VI Date 9/16/11

Project / Client St Croix Alumina

1715 Wash vehicles on way back from Area B.
1730 Back at command post
1800 Off site

LATE ENTRY:

1645 Dan C and Joe S relinquished ~~END~~ samples to FedEx

- EPA-DESA
  AirBill # 874731027557
- CHEMTECH
  AirBill # 874731027546

SHIPPING NOTE: The sampling teams collects samples throughout each day. Any samples not ~~ship~~ PH-checked and shipped are maintained on ice at the command post until ready for shipping. All samples are kept in the locked building. Samples are re-iced each day.

9/16/11

Location St Croix, VI Date 9/17/11

Project / Client St Croix Alumina

0720 Weston arrives on site - Alex Byrnes, Graeme Gillespie, Joe S, Ed K, M Lantz, Dan C, D Cobb, and A. Daniels.
0730 AB scanned IDW bags from RMA work - 2 bags from work on top of pile
⇒ MicroR-19 : no readings above background
0750 EPA arrived on site - D Rosoff, M. Ferriola, C. DiNofrio, N. Azzam and I. Acosta
0800 Teams:
RMA - MF, NA, D Cobb, & AD
RMB - CD, IA, DR & EPA
AB and EK of Weston
Wells/Photos - ML & GG
Sample processing - JS & DE
-(PH readings for yesterday's late samples)
- Separation of samples for DG shipping [DG = Dangerous Goods]
- RAD samples for DG shipping split into two containers (< 500 kg each)

9/17/11

Location St Croix, VI Date 9/12/11

Project / Client St Croix Alumina

GPS Photo Documentation

Photo Record - Site Features

(Recorded on GPS)

~~SCA-9-17-01~~ (GW)

IMG-0000 Discharge from ~~ADP~~ RMB to Ditch at South end of Area B. (RMB Ditch 1) (GW)

IMG-0001 RMB Ditch 1

IMG-0002 Mouth of RMB Ditch 1

IMG-0003 RMB-WST37 Exposure

IMG-0004 RMB Southern Exposure

IMG-0005 RMB to LCP discharge

IMG-0006 Spillway UCP to LCP

IMG-0007 ~~Spillway~~ (GW) RMB to UCP pipes, looking N

IMG-0008 RMB to UCP culvert

IMG-0009 ADP Ditch 1 (Line Feature)

IMG-0010 ADP Ditch 2 (Line)

IMG-0011 RMB Large Exposure

IMG-0012 Pipes, West Ditch to LCP

IMG-0013 Red Mud, West Ditch South

IMG-0014 RMA West Drainage - N

IMG-0015 RMA West Drainage looking South

9/12/11

Location St Croix, VI Date 9/12/11

Project / Client St Croix Alumina

GPS Record (~~Line~~ ~~Site~~ (GW) Features)

~~ADP Discharge~~ (GW) SE

1) RMB Ditch 1 (GW) ~~East~~ End of RMB
2) Spillway outfall (southern end blocked by mangroves)
3) RMA West Drainage
4) RMA SW Drainage

Note: The main spillway discharges to the large culvert, passing under the access road; the resulting drainage pathway turns east ~~past~~ (GW) around MW-13 and MW-13D.

RMA West Drainage

The drainage area on the west side has received a lot of red mud, more than a foot thick ~~here~~ in many places. The whole area is covered with it.

9/12/11

Location ST CROIX, VI Date 9/17/11

Project / Client ST CROIX ALUMINA

PHOTO RECORD (CONT'D)

IMG-0016 RMA SW DRAINAGE, LOOKING NW FROM UCP MUD FLATS

IMG-0017 RMA CULVERT

IMG-0018 ~~13D WEST~~ GM-13D LOOKING WEST

IMG 0019 RMA CULVERT LOOKING NORTH.

1330 ML & GG RETURNED TO THE COMMAND POST. SAMPLE PROCESSING CONTINUES – THERE ARE SEVERAL SAMPLES THAT REQUIRE DG-SHIPPING DUE TO HIGH PH.

1340 THE RED MUD SURVEY CONTINUES IN AREA A (SEE LOGBOOK)

→ CONTOUR SURVEY OF THE ENTIRE RED MUD PILE.

→ READINGS AT CONTACT (I.E. GROUND SURFACE) AND 1 METER ABOVE GROUND.

9/17/11

Location ST CROIX, VI Date 9/17/11

Project / Client ST CROIX ALUMINA

MEETING W/ ~~ADEC~~ DAVE ROSOFF

- AREA B – 15 LOCATIONS IN EXPOSED AREAS
  - ⇒ EACH LOCATION NEEDS 5-6 PHOTOS – DOCUMENT SURROUNDINGS
  - ⇒ ROUGH ESTIMATE OF AREA
  - ⇒ SAMPLES AT DEPTH – HAND AUGER AS DEEP AS POSSIBLE
  - ⇒ UNSURE VS THE MIGRATION OF RM GOING
- ALSO DOCUMENT EROSION FROM AREA B INTO UPPER COOLING POND

1500 THE RED MUD SURVEY TEAM HAS RETURNED TO COMMAND POST.

⇒ DOWNLOAD RAD DATA, THEN EPA DEPARTS

1600 WESTON DEPARTED SITE; EK AND GG REMAINED FOR ANOTHER 1 HOUR.

1700 EK AND GG OFF SITE AND BACK TO HOTEL.

9/17/11

Location St Croix, VI Date 9/19/11

Project / Client St Croix Alumina

0700 WESTON ARRIVES ON SITE ~~TEAMS~~ AND EPA ALSO.

TODAY'S TEAMS:

- RMB SAMPLING - AB, DCOBB, AND AD w/ NIDAL A., MIKE F., AND ILANA
- FBS STORAGE & RMA DRAINAGE - DR & CD OF EPA w/ EK OF WESTON
- ML & JS OF WESTON - GW TEAM

0715 TAILGATE SAFETY MEETING

0735 RMB TEAM OUT TO BEGIN SAMPLING IN AREAS OF EXPOSED RM

0800 TEAM CHANGE - GG ESCORTS DR & CD TO FBS (EK DOING SMO)

- RED MUD MIXED w/ ALUMINA & BAUXITE AT BACK MIDDLE (NOT MUCH); DEBRIS MIXED IN THROUGHOUT
- ALUMINA PILE (WHITE) ~~#~~ PILED AT WEST SIDE;
- BAUXITE MIXED WITH RED MUD AT WEST END; ALUMINA ALSO
- PILE IN FBS DOES NOT EXTEND THROUGHOUT THE SHED

GG 9/19/11

Location St Croix, VI Date 9/19/11

Project / Client St Croix Alumina

0820 RED MUD MOSTLY, SOME RED SAND MIXED IN, AT SURFACE

- NO SATELLITES ON GPS IN FBS THROUGHOUT THIS AREA. (TOP OF PILE)
- HIGHEST RMS SCREENING RESULTS ARE FROM THE PILE; ONE LOWER BOWL IS ~~HIGHER~~ (GW) SIMILAR; EROSION CHANNEL ON EAST SIDE ALSO
- RED MUD MIGRATION OVER SILT FENCE TO SOUTH (BEHIND PILE) TO ~~BLOCKED BY~~ (GW) EXPOSED RM AREA BELOW

0900 ~~MOO~~ (GG) WE FLAGGED 3 POINTS (44-45-46) ON TOP OF PILE. (NO GPS COVERAGE)

- MOVED FBS-WST43 TO ~~#~~ HEAD OF EROSION CHANNEL THROUGH BERM, SOUTH (GW) SIDE OF SHED

FBS Summary

- PILES CONSIST OF A MIXTURE OF RED MUD, ALUMINA, BAUXITE, AND CALICHE/MARBLE; SOME PILES OF DEBRIS
- EVIDENCE OF MIGRATION TO SOUTH - EROSION CHANNEL THROUGH BERM

GG 9/19/11

Location St Croix, VI Date 9/19/11

Project / Client St Croix Alumina

0930 RMA WEST DRAINAGE AREA. THE SOILS IN THIS AREA ALL CONSIST OF RM.
- READINGS IN VEGETATED AREAS ARE NEAR 30,000 CPM.
- DECIDE TO CALL THIS ~~RED MUD AREA~~ (C) NOT ALREADY USED
- READINGS IN CHANNEL ARE ALSO ~~UP TO~~ SOME APPROXIMATELY 25-30 KCPM

1010 FLAGGED/GPS RMC-S11 (PILE IN MIDDLE) - PROPOSED

1030 (APPROX) FLAGGED RMC-S12

1130 FLAGGED RMC-S13 GPS POINT (PROPOSED)

1135 RMC-S14 PROPOSED

1140 ARRIVED AT THE RUINS - SLAVE QUARTERS - THIS ~~AREA~~ AREA IS A LIMESTONE OUTCROP STAINED W/ RED MUD AND W/ RED MUD DEPOSITS IN SOME AREAS.
- RAD SCREENING MEASURES BACKGROUND (~ 4000 CPM)
- RAD (GAMMA) SCREENING IN EXPOSED AREA EAST OF SLAVE QUARTERS = 15-20 CPM

Gerald V. Gee 9/19/11

Location St Croix, VI Date 9/19/11

Project / Client St Croix Alumina

1150 GPS/FLAG RMC-S15 (ADJACENT TO RUINS)

1158 PHOTO - CS SCREENING AT EROSION CHANNELS THROUGH LIMESTONE, STAINED RED

1210 GPS - RMC-SD12 CHANNEL MOUTH.

1225 GPS OF RMC-SD11 (RMA - RMS ~~CHANN~~ DITCH)

1300 DAVE R WANTS TO CONSULT WITH ILSE ABOUT THIS AREA BEFORE WE SAMPLE.

SUMMARY: - RED MUD IS DEPOSITED THROUGHOUT THIS AREA, IN THICKNESSES FROM < 1 INCH TO > 1 FOOT.
- EPA WILL DECIDE TOMORROW WHETHER TO SAMPLE AND HOW MANY TO COLLECT.
- GPS LOCATIONS ARE JUST PROPOSED AT THIS POINT.

1330 BACK TO COMMAND POST FOR LUNCH AND BREAK.

Gerald V. Gee 9/19/11

Location St Croix, VI Date 9-19-11

Project / Client St Croix Alumina

Today's FedEx Airbills

1400 Dangerous Goods shipping
- EPA-DESA, Airbill #868315994729
- CHEM, Airbill #868315994718

1645 Environmental Samples
- DESA, Airbill #874731024710
- CHEM, Airbill #874731024753
- NAREL, Airbill #874731024731

Sampling in RMB and at Groundwater wells continued through the afternoon (see separate logbooks).
- GW samples from wells G-9, G-11, ~~VW-25~~ (organics shipped today); VW-25 & VW-16 samples to ship tomorrow.
- RMB team plans to continue throughout the afternoon

Note: one of the bladder pumps got stuck in well G-9; fish it out later.

Gerald V. G 9/19/11

Location St Croix, VI Date 9-19-11

Project / Client St Croix Alumina

1400 Dan C and Ed K relinquished the ~~SAS~~ DG shipments to FedEx, (high pH samples)

1645 Relinquished Env. samples to FedEx

1800 GW sampling team returned; packing samples

1810 RMB sample team has returned; decon and sample management

1930 End sampling day

Daily Sample Summary

Type	ID	Time
Waste	RMB-WST39A	0800
	B	0800
	RMB-WST37A	0810
	B	0810
	RMB-WST38A	0835
	RMB-WST36A	0920
	RMB-WST34A	0935
	B	0935
	ADP-WST41A	1015
	B/C	1015/1020
	ADP-WST42A	1035
	B	1035

Gerald V. G 9/19/11

Location St Croix VI Date 9/19/11

Project / Client St Croix Alumina

Daily Sample Summary (cont'd)

Type	ID	Time
Waste	RMB-WST29A	1135
	B	1135
	RMB-WST40A	1200
	RMB-WST30A	1210
	B	1210
	RMB-WST28A	1230
	B	1230
	RMB-WST32A	1245
	RMB-WST22A	1520
	B	1522
	RMB-WST23A	1555
	B/C	1700/1710
	RMB-WST24A	1740
Groundwater	SCA-GW02/2F	1125 (from log)
	SCA-GW04/4F	1406
	SCA-GW07/7F	1551
	SCA-GW03/3F	1737
Blanks	WST-RIN05	0730
	SCA-TB01	1045
	SCA-TB02	1800

(keep w/ late samples)

9/19/11

Location St Croix VI Date 9/20/11

Project / Client St Croix Alumina

0700 Weston arrives on site weather: steady rain, + T-storms Mike F & Nidal Azzam of EPA arrives also.

0715 Tailgate Safety Meeting

0730 Ilde Arosa of EPA arrived.

Today's Activities:

- RMA screening (postponed until rain stops)
- FBS sampling
- RMA - drainage area sampling
- Plan development for Area D (Red mud area south of RMA)

0800 ATSDR arrives for their on-site orientation and meeting; Weston proceeding w/ sampling.

0830 Heavy rains are coming down; unable to work on the RM pile → that team (Mike F, Nidal, AD, & D Cobb) will do FBS sampling first

0900 Narcisse Abraham of MPI arrives, showed GG the location of GM-22. In vegetated area west of RM clearing.

9/20/11

Location S. Croix, VI Date 9/20/11

Project / Client St Croix Alumina

1100 (approx.) IA & GC at RMA; RED WATER FLOWING HEAVILY

- GC CAPTURES VIDEO ON iPHONE FLOW THROUGH TIRE WALL, INTO CULVERT, THROUGH PIPES, AND INTO DRAINAGE CHANNEL PAST WELLS GM-13 AND GM-13D
- TWO MORE VIDEOS TO THE WEST (GPS VIDEO 2 & 3)
- IA DECIDES TO COLLECT A SAMPLE OF THE RED WATER FROM THE CULVERT DISCHARGE PIPE

1130 EVALUATION OF RUINS

- RED MUD (UP TO A FEW INCHES THICK) IN AREA NORTH ON SIDE OF SLOPE TO PEAK, BUT NOT TO OTHER SIDE
  - THE RM SITS DIRECTLY ATOP BEDROCK LIMESTONE OF THE KINGSHILL AQUIFER
  - STORM WATER FLOWS IN BOTH DIRECTIONS ON SOUTH SIDE OF ACCESS ROAD.
    - → GPS: RUINS DRAIN-E
    - → GPS: RUINS DRAIN-W (BIG LINE FEATURE TO UCP)

GVG

9/20/11

Location ST CROIX, VI Date 9/20/11

Project / Client ST CROIX ALUMINA

1200 EVALUATION OF RMA WEST DRAINAGE

- ~~COVERS~~ EXTENDS FROM RUINS-~~DRN~~ AREA WEST TO SW CORNER OF RMA (LARGE DISCHARGE PIPE UNDER ROAD)
- THERE ARE DRAINAGE CHANNELS AND ASSOCIATED FLOODPLAINS THROUGHOUT, FROM RMA TO UCP; SHEETFLOW ALSO.
- ENTIRE AREA IS COVERED WITH RED MUD DEPOSITS, RANGING FROM A FEW INCHES TO > 1 FOOT.
  - ⇒ THICK DEPOSITS OF RM ARE APPARENT ON BANKS OF STREAM CHANNELS
- DRAINAGE COMES FROM PIPE DISCHARGE AT WEST END, RUINS-DRAIN-W AT EAST END; SEEPAGE AREAS AND OVERFLOW IN BETWEEN.
- EPA REQUESTED AERIAL INTERPRET TO COMBINE W/ GROUND SURVEY.
- RED MUD OBSERVED W/IN 4' OF SLAVE QUARTERS & W/IN 20' OF FURNACE
- RED MUD SURROUNDS LIMESTONE HILL

9/20/11

Location St Croix, VI Date 9/20/11

Project / Client St Croix Alumina

1315 A Byrum collects sample RMA-SW57
- Red water flowing off RMA
- Sample collected from middle pipe, south side of road
- Collected during lighter rain, but flow estimated ~200 gpm
- pH paper reads 10-11 at flow
- pH of sample = 10.54

1400 IA & GG completed the survey of the RMA West drainage and head back to command post.

1415 GW team at well G-7 to start the afternoon

1515 ML reports that well only has a few feet of water, and it runs dry.
⇒ Purge today, return tomorrow for sample.

1530 Sample management push to make the FedEx run

9/20/11

Location St Croix, VI Date 9/20/11

Project / Client St Croix Alumina

1630 Dan C off to FedEx

1645 Relinquished coolers to FedEx
- DESA, one cooler
  Airbill # 874731024775
- Chemtech, two coolers
  Airbill # 874731024742
- NAREL, one cooler
  Airbill # 874731024764

1730 IA & GG add new samples for tomorrow:
- RMA-SD57 through RMA-SD63 (one duplicate)
  → Rad + Inorganics for all
  → SVOCs/Aroclors for SD57, SD59, and SD62/63
  → Waste samples from the RMA West drainage/overflow area
- Also need to collect BG-SS16 and BG-SS16 (west of site near the landfill WWTP and river out)

9/20/11

Location ST CROIX, VI Date 9/21/11

Project / Client ST CROIX ALUMINA

0700 WESTON ARRIVED ON SITE, AND EPA.

0715 TAILGATE SAFETY MEETING

0730 TODAY'S TEAMS:

- AB, DCOBB, AD, AND IA MF, AND NA - SOIL AND RM SED SAMPLING
- ML & JS - GW SAMPLING
- EK - DG SHIPPING
- DCARLSON & GC - NON-DG SMO (MANY TO PROCESS)

⇒ SAMPLING TEAMS SET OUT

0800 SOIL TEAM BEGINS AT THE BIG LOCATION, THEN WILL WORK THEIR WAY OVER TO RMA LOCATIONS.

⇒ ALSO NEED TO COLLECT THE SAMPLES AT FBS-WST43

0800 EPA TEAM IS DOING THE RADIATION SCREENING IN THE COMMUNITY TODAY. ⇒ RAT SURVEY

0800 NEW SAMPLE NUMBERS CREATED FOR RAD SURVEY HOT SPOTS IN AREA A (RAD ONLY): RMA-WST-R01 & RMA-WST-R02

9/21/11

Location ST CROIX, VI Date 9/21/11

Project / Client ST CROIX ALUMINA

0955 JS CHECKED IN - NO VOLUME/RECOVERY AT WELL G-7

⇒ MUDDY WATER, ONLY 3'

⇒ NO SAMPLE

1100 JS CHECKED IN AGAIN, REPORTED THAT THE PH OF THE WATER IN GM-22 IS 12.5+

⇒ ORGANICS WILL BE SHIPPED AS DANGEROUS GOODS

1145 SAMPLING TEAM DROPPED OFF THE SAMPLES FROM THIS MORNING (RMA-SD57 TO RMA-SD63)

- ADDED SAMPLES; ALTHOUGH LISTED AS SD SAMPLES TO DISTINGUISH FROM RMA PILE, THE SAMPLES CONSISTED OF WASTE MATERIAL (RED MUD)

⇒ MODIFICATION TO WORK PLAN

1250 GW SAMPLING IS COMPLETED ML RETURNS W/ SAMPLES FOR SMO:

- SCA-GW05/SF (WELL GM-13D)
- SCA-GW06/GF (WELL GM-22)

9/21/11

Location St Croix, VI Date 9/21/11

Project / Client St Croix Alumina

Sample Management Issues

pH of sample GW06 = 12.75
(From well GM-22)

⇒ Must go as Dangerous Goods if unpreserved

Preserved metals and filtered metals to pH < 2
⇒ much effervescence; 40 mL

Preserved VOCs w/ HCl
(10-25 drops, not below 2)
Effervesced also

For DG shipping of SVOCs/Aroclors, we transferred samples into 16-oz glass jars to fit the shipping containers. (Sample SCA-GW06)

1300 Sample management - sampling effort is complete

1340 AB, DC, & AD out to measure the Ash Disposal Pond

9/21/11

Location St Croix, VI Date 9/21/11

Project / Client St Croix Alumina

At Disposal Pond

Area measurement (based on GPS) = 35,742 ft²

Depth = 4.5 ft

~~35,742 ft² x 4.5 ft = 54,292 ft³~~

~~= 2010 cy~~ GVG

Transcription of Alex Byrum's notes from RST Logbook #1

1340 Drive to ADP area, measure using the RST-2 Trimble
⇒ Approx. 35,742 ft²

And hand auger for depth - six additional auger holes advanced to refusal @ approx. 4.5' depth

2 holes down to 5' depth to refusal on native rock/soil or water closes hole

Note: Depth ≅ 4.5' average

- Volume estimate of exposed area

35,742 ft² x 4.5 ft = 160,839 ft³

⇒ 160,839 ft³ / 27 ft³/cy = 5957 cy

9/21/11

Location ST CROIX, VI Date 9/21/11

Project / Client ST CROIX ALUMINA

WESTON PACKED SAMPLES AND EQUIPMENT. DUE TO THE FEDEX DEADLINE, SOME SAMPLE SHIPPING WILL WAIT UNTIL TOMORROW.

1800 AD RETRIEVED BLADDER PUMP FROM WELL G-9

Daily Sample Summary

Sample	Type	Time
BG-S16A	BG Soil	0810
BG-SS16	↓	0810
RMA-WSTR01A	Waste	0900
RMA-WSTR02A		0915
FBS-WST43A		1000
RMA-SD57		1025
RMA-SD58		1038
RMA-SD59		1055
RMA-SD60		1105
RMA-SD61		1115
RMA-SD62		1120
RMA-SD63		1130
SCA-GW05	Groundwater	~~1155~~ 0915
SCA-GW05F		0915
SCA-GW06		1155
SCA-GW06F		1155
SCA-TB04	Trip Blank	1515

9/21/11

Location ST CROIX, VI Date 9/22/11

Project / Client ST CROIX ALUMINA

0730 A BYRUM AND G GILLILAND OF WESTON ARRIVED ON SITE

EKNVFD AND EPA ARE HERE

0800 MET W/ I ACOSTA EPA

INFO FROM COMMUNITY SURVEY: (YESTERDAY)

- ONE RESIDENT PROVIDES ANECDOTAL EVIDENCE OF MIGRATION OF RED DUST:
  9/21/2011 @ 1530 PM
  CELESTINE CLOUIS
  (340)692-7702
  227-0613 CELL
  - DUST ON WINDOW LOUVERS AND FAN DURING HIGH WIND EVENTS
  - PHOTO BY N AZCAM OF FAN W/ PINK STAINING
- RESIDENT OF BETHLEHEM VILLAGE ALSO SAID THEY SEE RED DUST EMANATING FROM THE PILE DURING STORM EVENTS → MOST RECENTLY DURING TS MARIA ON 9/11/11.

9/22/11

Location ST CROIX, VI Date 9/22/11

Project / Client ST CROIX ALUMINA

0840 AB & GG SET OUT FOR AREA B SURVEY AND MISC (GM-22/FBS).

0850 GM-22 GPS POINT

- PHOTO ON GPS: MOLASSES TANKS FROM GM-22

0910 ARRIVED, BEGIN GPS OF SOUTH END OF AREA B

- SOUTHERN EXPOSURE BORDER - GPS LINK ON TRIMBLE GEOXH
- AREA OF IMPACT, INCLUDING DITCH ON TRIMBLE GEOXT RMB ~~AREA~~ DITCH

0925 PHOTO OF EAST END

0935 AREA OF LARGE EXPOSURE

- GPS ON TRIMBLE GEO XT
- PHOTO PANORAMA
- RMB ~~AREA~~ SOUTHERN SETTLED AREA

0955 GPS OF RMB AREA 3 (PARTIAL EXPOSURES SOUTH OF APP)

1000 GPS OF RMB AREA 4

1010 DROVE NORTH, GPS OF RMB AREA 5

- PHOTO PAN

9/22/11

Location ST CROIX, VI Date 9/22/11

Project / Client ST CROIX ALUMINA

1015 GPS - RMB SAND

- RMB-WST40 IN THIS AREA
- DRUMS IN THIS AREA

1022 GPS OF RMB AREA 6

1040 GPS OF PERIMETER OF FBS PILE

- DOES NOT INCLUDE DEBRIS PILES AT NORTH END - REDWOOD AND MIXED WASTE ONLY.

NOTE: PHOTOS OF THESE AREAS (RMB EXPOSED AREAS AND FBS) WERE TAKEN ON GG's IPHONE.

1100 BACK TO COMMAND POST - CHECK MAP FOR PROXIMITY OF SAMPLES:

- RMB SOUTH EXPOSURE → RMB-WST37
- RMB SOUTHERN SETTLED → RMB-WST38
- RMB AREA 3 → NONE (AREA 4 NEED)
- RMB AREA 5 → RMB-WST29
- RMB SAND AREA → RMB-WST40
- RMB AREA 6 → NONE

9/22/11

Location St Croix Date 9/22/11

Project / Client St Croix Alumina

1130 Late Entry: EPA is on site to complete the RAD survey in the community recreational areas and along the site's northern fenceline.

- Weston personnel are on site completing sample management (DG shipments for all labs, plus other for DESA and NAREL)
- Other Weston personnel (AD, ML, & DCobb mainly) are demobilizing equipment – packing and return shipping

Late Entry: 1000 Dan C relinquished sample coolers to FedEx:

Chemtech (DG) - Airbill # 868315994751
DESA - Airbill # 874731026138
DESA (DG) - Airbill # 868315914158
NAREL - Airbill # 874731026116
NAREL (DG) - Airbill # 868315914147

1200 Sample Packaging of remaining RAD samples containers.

9/22/11

Location St Croix Date 9/22/11

Project / Client St Croix Alumina

1300 Dan C relinquishes remaining RAD samples to FedEx:

NAREL - Airbill # ~~865869422~~ 865869642224

(3 coolers)

1300 With the final shipment of samples, the sampling event is concluded (demob continues)

We have arranged to leave some supplies w/ SCRG (bottles mostly)

1330 Off site for lunch w/ EPA

1400 EK & JS to FedEx to confirm paperwork

1500 On site, continue demob

1600 EPA processing their screening data for transfer to the Scribe database

1730 Data transcribed done for day. (Additional EQ demob/cleanup tomorrow)

1800 Off site

DG

9/22/11

Location ST CROIX ALUMINA Date 9/23/11

Project / Client ST CROIX ALUMINA / EPA

0830 WESTON ON SITE FOR DEMOBE AND CLEANUP

NOTE: WE HAVE ARRANGED TO DONATE EXTRA NITRIC ACID AND CAL GAS (FOR PID) TO DPNR - WILL DROP OFF LATER

1100 D ROSOFF OF EPA ARRIVES, INSPECTS COMMAND POST W/ TAC TAKEOVER OF SCRG EVERYTHING UP TO SNUFF

1130 WESTON OFF SITE W/ ALL REMAINING EQ/SUPPLIES TO FEDEX.

9/23/11

Location Date

Project / Client

FIELD LOGBOOK #2

GROUND WATER



"Rite in the Rain"®

ALL-WEATHER

FIELD

No. 351

ST. CROIX ALUMINA

(RENAISSANCE PARK)

KINGSHILL, ST. CROIX,

U.S. VIRGIN ISLANDS

DCN#: 1455-4E-ASKV

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

Name WESTON SOLUTIONS, INC

Address 205 campus Drive
Edison NJ 08837

Phone 732-417-5800

Project ST. CROIX ALUMINA (RENAISSANCE PARK)
Kingshill, ST, CROIX, USVI
WO# 20405.012.013.1455.00

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CONTENTS

PAGE	REFERENCE	DATE

Team members Michele Lortz and Derrick Cobb (Weston). —2

Weather mid 80s, partly cloudy, 10-15mph wind + Chance of storms in PM. —2

H&S Keep hydrated, buddy system. —2

0930 Left command post to navigate to monitoring wells across site, GPS wells, and collect depth to water, depth to product if present and depth to bottom. —2

0945 Located G-9 at northern edge of site, GPSed location in file 9101lmonitoringwells. Depth to water 100.23ft TIC. Total depth is 123.82ft TIC. —

0950 No well cap at well location. —

1020 Picked up different key from main gate and tried to find G-7 just north of distillery between gates. No well located. —3

1030 Called main gate to notify them that we were back onsite. —2

Michele Lortz 9/10/11

1035 G-7 located on left side of access road. well is completely filled with dirt and no inner casing. —2

1045 Returned key to main gate and mobilized to find GM-19. —2

1100 Located GM-19. well cap is wedged on stickup. Need to come back with tools to unlodge. GPSed the well location. —2

1200 Lunch & supplies. —2

1400 Started looking for H-1. —2

1430 H-7 located and GPSed. —2

1450 Depth to product is 27.65ft TIC, Depth to water is 28.29ft TIC. Since product in well, no depth to bottom monitored. —2

1455 Spray deconed probe and mobilized to find G-22 —2

1525 Unable to find G-22. —2

1530 Mobilized to find GM-18. —2

Michele Lortz 9/10/11

St. Croix Alumina 9/10/11

1540 GM-18 located and GPSed.—

1545 Depth to water is 8.00ft TOC and depth to ~~prod~~ bottom is 24.48ft TOC. —— mz

1550 G-14 is locked. Unable to gauge. —— mz

1552 Located and GPSed G-11. Depth to water is and depth to bottom is 56.93ft TIC. mothball odor.

1600 Oil water interface probe being temperamental and detecting water while out in open air. meter steam cleaned. —— mz

1615 Remaining wells to be gauged on Monday. —

michele zontz mz

michele zontz 9/10/11

St Croix Alumina 9/13/11

1400 GG meets Narcisse Abraham of Malcom Pirnie Inc (MPI)/ Honeywell to unlock wells

1415 Opened GM-14 (southern end of old plant, along W. side of channel)

1420 Opened VW-16 (on way to garage)

1425 Opened VW-27 (behind pipeline NW of command post)

1430 Opened VW-25 (former tank area NW of molasses tanks)

1440 Opened VW-37 (access road on west side of Red Mud Area A - tile)

1445 Visited G-7 (south of VW-37 inside locked gate of weather station) - cannot open
⇒ NA will open tomorrow

Note: ~~All~~ Wells VW-16, VW-27, VW-25, and VW-37 consist of 4-inch fiberglass casing.

Narcisse (340)690-0477

9/13/11

St Croix Alumina 9-17-11

Water Level Measurements
- Full Round

Well	Time	DTW	TD
GM-18*	0915	7.96 BTOC	24.48
GM-14*	1045	8.30 BTIC	34.56
GM-11	1050	35.58 BTIC	56.47
VW16	1057	29.68 BTOC	39.70
VW27	1104	35.37 BTOC	43.65
VW25*	1111	35.32 BTOC	44.00
GM-19	1127	6.72 BTOC	29.50
	(Standpipe is 3.5')		
G-1	1155	7.65 BTIC	21.31
VW-37*	1203	49.15 BTOC	62.10
GM-13D* (HC)	1250	13.54 BTIC	18.14
	(Silted up - tan; water between inner & outer casing)		
GM-13D*	1252	28.20 BTIC	55.92
	(probe is clean)		
G-9	1320	100.80 BTOC	125.82

Six wells for RAD screening denoted by *

Do not sample VW27 or GM-13.

Carol V. 9/17/11

St Croix Alumina 9-17-11

New Sample Numbers & Wells

~~G-9 = SCA-GW01/GW01F~~ GW

VW37 = SCA-GW02/GW02F

VW25 = SCA-GW04/GW02F

VW16 = SCA-GW03/GW02F

Wells H-1, G-1, and GM-22 are eliminated.

All other numbers remain the same

RAD Samples from GM-18, GM-14, VW25, VW37, ~~GM-13~~ (HC), and GM-13D

Carol V. 9/17/11

Weather high 70s going to mid 80s chance of thunderstorms in PM.

Team members Michele Lotz & Joe Schmidl (Weston).

Health & Safety Keep hydrated, buddy system and pH of water.

Scope Low flow sample groundwater wells and collect samples.

0700 Arrived at office and started to pack supplies and equipment for groundwater sampling. Sample location table revised with additional wells.

0720 Health and safety meeting.

0730 YSI is calibrated according to manufacturers specs.

0750 Packed bottle sets for sampling.

0820 set up at G-9. Depth to water is 100.23ft. No pid reading due to open well with no cap.

0850 Set up bladder pump and all associated hoses and tubing.

Michele Lotz 9/19/11

0935 Started pump and waiting for water to travel up tubing.

1005 Continued pumping to get water out of well.

1035 Water is in flow through cell.

1040 Started recording readings.

1045 SCA-TB01 collected and preserved down to <2 pH.

1115 Continued sampling.

1145 Continued sampling.

1215 Continued sampling.

1245 Pump shut off. Sampling complete at G-9. Sample labelled SCA-GW02 and SCA-GW02F for filtered.

1300 Dropped off samples to office.

1330 Set up at G-11. Depth to water is 35.62ft.

1334 Started pumping well.

1406 Started sampling. SCA-GW04/GW04F collected.

1430 Lunch.

1500 Set up at VW-25. Depth to water is 35.35ft.

Michele Lotz 9/19/11

St. Croix Alumina groundwater

9/19/11

1515 Started pump at VW-25.

1551 Started sampling SCA-GW07/GW07.

1620 Completed sampling and packed up.

~~***~~ NOTE ~~***~~

All locations are sampled with new disposable tubing for water and air lines to bladder pump. New bladders are placed in pump after decon between sample locations.

1655 Set up at VW-16. Depth to water is 29.68ft bgs.

1705 Started pumping well at low flow <500mL/min.

~~1710~~ 1737 Started sampling, VW-16, SCA-GW03/GW03F.

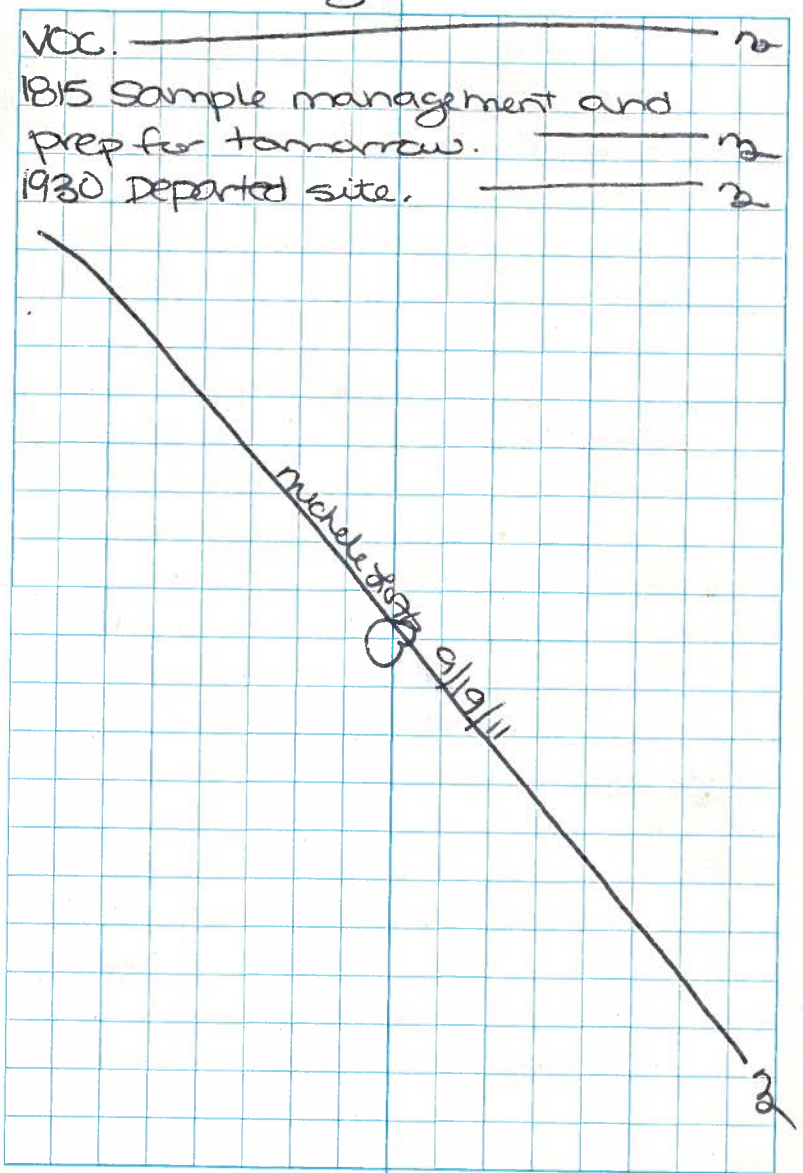
1757 Completed sampling. Packed up and mobilized back to office.

1800 Collected/created SCA-TB02, 2nd trip blank for PM and tomorrow samples for VOC.

Michele Zertz 9/19/11

1815 Sample management and prep for tomorrow.

1930 Departed site.



Michele Zertz 9/19/11

Weather) high 70s, rainy → going to mid 80s. ——— rz

Team members) Michele Lortz and Joe Schmidl (Weston). ——— rz

H&S) keep hydrated, slips, trips, and falls in wet conditions, and proper PPE. ——— rz

Scope) Continue sampling groundwater wells using low flow bladder pumps. ——— rz

0700 Arrived onsite and packed equipment and supplies necessary for continued groundwater sampling. ——— rz

0735 mobilized and set up at GM-18. —

0750 Depth to water is 7.84ft at GM-18. ——— rz

0755 New bladder installed in pump and pump dropped down well. ——— rz

0810 Started pumping at GM-18. —

0840 Continued pumping. ——— rz

0900 Started sampling SCA-GW10/GW10F. ——— rz

Michele Lortz 9/20/11

0905 Duplicate sample SCA-GW11/GW11F. ——— rz

0930 Pump turned off. Packed up and dropped samples at office. ——— rz

1000 Set up at G-14. Depth to water is 8.30. ——— rz

1010 started pumping. — rz

1042 started sampling at G-14, labelled SCA-GW08/GW08F. — rz

1100 Completed sampling, packed up and dropped off samples at office. ——— rz

1120 mobilized to GM-19. ——— rz

1140 Removed some underbrush to work around well. ——— rz

1200 Depth to water is 6.50ft. started purging. ——— rz

1230 started collecting sample at GM-19, SCA-GW09/GW09F.

1300 completed sampling, packed up and dropped samples at office. ——— rz

1315 lunch. ——— rz

Michele Lortz 9/20/11

1415 Set up at G-7. Depth to water is 7.55ft. ——m

1430 Started pumping at G-7. ——m

1435 Drawdown is significant. ——m

1443 water has drawndown past where pump was placed in well. —m

1445 Pump stopped and new tubing dropped down to bottom of well. ——m

1455 Started pumping again at G-7.

1514 water drawdown has once again pumped well dry.

1515 Spoke to G. Gilliland and he said leave well to recharge and sample tomorrow. —m

1555 Set up at VW-37. ——m

1605 Started purging well VW-37. Depth to water is 49.22ft. —

1641 Started sampling SCA-G-W011 SCA-G-W01F. ——m

1735 Completed sampling and came back to office. ——m

1740 Sample management. ——m

1830 Departed site. ——m

Michele Lortz 9/20/11

Weather low 80s, sunny going to high 80s, humid, chance of rain.—

Team members Michele Lortz & Joe Schmidl (Weston). ——m

H&S Slips, trips and falls and water pH. ——m

0700 Arrived at office and packed equipment and supplies for continued groundwater sampling. GM-22 has been located and added back into well locations to sample. scope for today is to finish with 13D, sample 22, and if recharged sample G7. ——m

0730 YSI is calibrated based on manufacturers specifications. —m

0745 Set up at G-13D. Depth to water is 20.91ft. ——m

0820 started purging well. —m

0850 Continued purging well, G-13D. ——m

0915 Started sampling well, G-13D, SCA-GW005/GW00**6**F.

Michele Lortz 9/21/11

St. Croix Alumina groundwater 9/21/11

0950 Completed sampling. Packed up and dropped samples at office. —

1000 Returned to well G-7 to check on recharge and collect sample. ——→

1010 Well is still at the same level it was when it was abandoned yesterday. Depth to water is 17.90ft.

1025 Phone call to G. Gilliland and well is not going to be sampled. ——→

1035 Explored a easy way to get to G-22. ——→

1115 Set up at G-22. Depth to water is 16.83ft. ——→

1155 Started sampling G-22 SCA-~~GW06~~ GW06 mx / SCA-~~GW06F~~ GW06F mx —

1245 Completed sampling and returned to office. ——→

1300 Sample management and pack supplies for shipment. —

→ mx

michele Jantz 9/21/11

St Croix Alumina 9/21/11

1400 ML TRANSFERRED LOGBOOK TO G. GILLILAND; GW SAMPLING CONCLUDED; SUMMARY TABLE:

WELL	SAMPLE	DATE	TIME
G-9	SCA-GW02	9/19/11	1125
	SCA-GW02F		1125
G-11	SCA-GW04		1406
	SCA-GW04F		1406
VW25	SCA-GW07		1551
	SCA-GW07F		1551
VW16	SCA-GW03		1737
	SCA-GW03F	↓	1737
GM-18	SCA-GW10	9/20/11	0900
	SCA-GW10F		0900
	SCA-GW11		0905
	SCA-GW11F		0905
GM-14	SCA-GW08		1042
	SCA-GW08F		1042
GM-19	SCA-GW09		1230
	SCA-GW09F		1230
VW37	SCA-GW01		1641
	SCA-GW01F	↓	1641

Gerald V. Gilliland 9/21/11

ST CROIX ALUMINA 9/21/11

GW SUMMARY TABLE (CONT'D)

WELL	SAMPLE	DATE	TIME
GM-13D	SCA-GW05	9/21/11	0915
	SCA-GW05F	↓	0915
GM-22	SCA-GW06		1155
	SCA-GW06F		1155

NOTES:
- SAMPLE SCA-GW11 IS A DUPLICATE OF SCA-GW10
- SAMPLE SCA-GW11F IS A DUPLICATE OF SCA-GW10
- WELL G-7 PURGED DRY AND COULD NOT BE SAMPLED
- SAMPLING CONSISTED OF LOW-FLOW GROUNDWATER SAMPLING WITH A BLADDER PUMP FOR ALL WELLS.
- QA/QC ~~CHANGES~~ NOTES BY G. GILLILAND:
  - G-14 = GM-14
    G-13D = GM-13D
    G-22 = GM-22

Gerald V Gilliland 9/21/11

Site: St Croix Alumina
Personnel: ML + JS
Date: 9/19/11

Well Number: G-9
Total Depth: 123.82ft
Depth to Water: 100.23ft
Screened Interval: unknown
Pump Intake: mid screen (5ft bottom)
Sample Method: low flow

Pump On time: 935
Pump Off Time: 1300
Sample Time: 1125
Sample Parameters: VOC, Inorganics (Filtered & not), RAD analysis, Chloride

TIME (3 - 5 minutes)	DTW (<0.3 ft.)	Flow Rate (<500 ml/min)	pH (0.1 units)	Temp (0.1 degrees)	DO (10%)	Conductivity (3%)	ORP ~~eH~~ (+/- 10)	Turbidity* (10%)	Salinity	Water Conditions	Iron
1041	100.22	<500	7.83	30.15	6.35	1902	-20.8	NA	—	clear	—
1046	100.23	<500	7.45	30.03	5.68	1982	-5.0	NA	—	clear	—
1050	100.23	<500	7.30	29.98	5.36	2009	2.5	NA	—	clear	—
1054	100.23	<500	7.36	29.99	5.32	2012	2.2	NA	—	clear	—
1058	100.23	<500	7.38	29.84	5.17	2010	10.0	NA	—	clear	—
1102	100.23	<500	7.37	29.91	5.11	2010	5.2	NA	—	clear	—
1106	100.23	<500	7.35	29.72	5.07	2006	7.8	NA	—	clear	—
1110	100.23	<500	7.34	29.86	5.08	2011	10.1	NA	—	clear	—
1114	100.23	<500	7.35	29.93	5.03	2014	9.6	NA	—	clear	—
1118	100.23	<500	7.33	30.02	4.96	2020	10.5	NA	—	clear	—
1121	100.23	<500	7.32	30.06	4.93	2022	13.2	NA	—	clear	—
1124	100.23	<500	7.27	30.07	4.91	2023	18.7	NA	—	clear	—

Sample SCA-GW02/F (GVG) 9/19/11 @ 1125

* YSI does not have turbidity meter.

Site: St. Croix Alumina
Personnel: MU + DS
Date: 9/19/11

Well Number: G-11
Total Depth: 35.62 grd flop
Depth to Water: 56.47
Screened Interval: unknown
Pump Intake: 46ft bgs
Sample Method: low flow

Pump On time: 1334
Pump Off Time: 1428
Sample Time: 1406
Sample Parameters: VOC, Pro/Ox, Inorganics, SVOC, Chlorides

TIME (3 - 5 minutes)	DTW (<0.3 ft.)	Flow Rate (<500 ml/min)	pH (0.1 units)	Temp (0.1 degrees)	DO mg/L (10%)	Conductivity (3%)	ORP (+/- 10)	Turbidity (10%)	Salinity	Water Conditions	Iron
13:33	35.62	240 ml/m	7.72	31.61	14.81	22,882	115.8	*	—	clear	—
1338	35.62	<500	7.70	31.00	1.01	23619	-178.9	*	—	clear	—
1343	35.62	<500	7.71	30.51	0.43	23467	-209.9	*	—	clear	—
1347	35.62	<500	7.71	30.50	0.34	23565	-223.5	*	—	clear	—
1351	35.62	<500	7.72	30.52	0.30	23708	-231.7	*	—	clear	—
1354	35.62	<500	7.73	30.56	0.32	23803	-235.4	*	—	clear	—
1357	35.60	<500	7.74	30.62	0.35	23879	-241.2	*	—	clear	—
1401	35.61	<500	7.75	30.64	0.37	23908	-244.1	*	—	clear	—
1405	35.60	<500	7.76	30.67	0.38	23918	-247.8	*	—	clear	—

Sample SCA-GW04/F (GVG)
9/19/11 @ 1406

* YSI meter does not have turbidity

Site: St. Croix Alumina
Personnel: ML + JS
Date: 9/19/11

Well Number: VW-25
Total Depth: 35.35 ↓ opposite
Depth to Water: 44.00
Screened Interval: ~~39ft~~ unknown
Pump Intake: 39ft
Sample Method: low flow

Pump On time: 1515
Pump Off Time: 1620
Sample Time: 1551
Sample Parameters: VOC, Inorganics, Chlorides, RAD analysis

TIME (3 - 5 minutes)	DTW (<0.3 ft.)	Flow Rate (<500 ml/min)	pH (0.1 units)	Temp (0.1 degrees)	DO (10%)	Conductivity (3%)	ORP ~~eH~~ (+/- 10)	Turbidity (10%)	Salinity	Water Conditions	Iron
1518	35.42	<500	7.76	29.52	6.00	10320	29.3	*	—	brown	—
1522	35.43	<500	7.27	29.18	0.97	10144	19.3	*	—	light brown	—
1526	35.42	<500	7.18	29.17	0.93	10089	3.6	*	—	cloudy	—
1530	35.43	<500	7.16	29.21	0.93	10003	-11.5	*	—	clear	—
1534	35.42	<500	7.16	29.22	0.98	9838	-18.9	*	—	clear	—
1538	35.44	<500	7.18	29.19	0.96	9655	-27.9	*	—	clear	—
1542	35.44	<500	7.19	29.18	0.95	9574	-33.7	*	—	clear	—
1546	35.44	<500	7.19	29.20	0.93	9553	-38.4	*	—	clear	—
1550	35.44	<500	7.19	29.22	0.92	9545	-40.3	*	—	clear	—

Sample SCA-GW07/F (GVC)
9/19/11 @ 1551

* YSI does not have turbidity meter

Site: St. Croix Alumina
Personnel: ML + JS
Date: 9/19/11

Well Number: VW-11e
Total Depth: 29.68 ↓ opposite
Depth to Water: 39.70
Screened Interval: unknown
Pump Intake: 25ft
Sample Method: low flow

Pump On time: ~~1605~~ 1705
Pump Off Time: 1757
Sample Time: 1737
Sample Parameters: VOC, Inorganics, chloride

TIME (3 - 5 minutes)	DTW (<0.3 ft.)	Flow Rate (<500 ml/min)	pH (0.1 units)	Temp (0.1 degrees)	DO (10%)	Conductivity (3%)	ORP ~~eH~~ (+/- 10)	Turbidity (10%)	Salinity	Water Conditions	Iron
~~1610~~ 1710	29.68	<500	7.74	29.29	-32.00	3477	-21.7	★	—	clear	—
1715	29.68	<500	6.86	29.29	0.75	3663	-30.8	★	—	clear	—
1720	29.69	<500	6.78	29.28	0.58	4053	-41.8	★	—	clear	—
1724	29.68	<500	6.73	29.28	0.46	4134	-51.5	★	—	clear	—
1728	29.70	<500	6.73	29.20	0.41	41.33	-56.1	★	—	clear	—
1732	29.70	<500	6.72	29.29	0.38	4121	-58.9	★	—	clear	—
1736	29.70	<500	6.72	29.26	0.35	4085	-61.8	★	—	clear	—

Sample SCA-GW03/F (GVC)
9/19/11 @ 1737

★ YSI meter does not have turbidity

Site: St. Croix Alumina
Personnel: ML + JS
Date: 9/20/11

Well Number: GM-18
Total Depth: 24.48
Depth to Water: 7.84
Screened Interval: unknown
Pump Intake: 7ft from bottom
Sample Method: lowflow

Pump On time: 810
Pump Off Time: 930
Sample Time: 900 DUP 905
Sample Parameters:

TIME (3 - 5 minutes)	DTW (<0.3 ft.)	Flow Rate (<500 ml/min)	pH (0.1 units)	Temp (0.1 degrees)	DO (10%)	Conductivity (3%)	ORP eH (+/- 10)	Turbidity (10%)	Salinity	Water Conditions	Iron
0811	7.84	<500	9.43	27.20	5.48	15885	210.5	127.0	—	cloudy	—
0814	* 7.92	<500	9.57	27.85	3.24	16059	169.5	104.0	—	cloudy	—
0817	* 7.94	<500	9.61	27.95	1.75	16069	124.6	69.2	—	clear	—
0820	* 7.94	<500	9.61	28.01	1.00	15985	85.0	51.8	—	clear	—
0823	7.95	<500	9.61	28.05	0.57	15847	25.6	43.0	—	clear	—
0826	7.93	<500	9.61	28.06	0.51	15723	-21.1	39.4	—	clear	—
0829	7.93	<500	9.60	28.08	0.45	15582	-71.4	32.2	—	clear	—
0832	7.92	<500	9.60	28.08	0.36	15507	-112.8	20.9	—	clear	—
0835	7.92	<500	9.59	28.09	0.34	15416	-144.8	15.5	—	clear	—
0838	7.92	<500	9.59	28.11	0.30	15480	-166.8	10.5	—	clear	—
0841	7.93	<500	9.59	28.09	0.27	15547	-194.7	7.9	—	clear	—
0844	7.92	<500	9.59	28.11	0.27	15554	-214.9	5.0	—	clear	—
0847	7.97	<500	9.59	28.11	0.26	15546	-231.6	3.9	—	clear	—
0850	7.93	<500	9.59	28.11	0.24	15507	-245.7	3.3	—	clear	—
0853	7.95	<500	9.59	28.12	0.24	15471	-258.6	2.6	—	clear	—
0856	7.92	<500	9.59	28.12	0.23	15445	-268.1	1.8	—	clear	—
0859	7.98	<500	9.58	28.13	0.22	15400	-277.6	1.4	—	clear	—

Samples SCA-GW10/F 9/20/11 @ 0900
SCA-GW11/F (Duplicate) 9/20/11 @ 0905 GWB

Site: St. Croix Alumina
Personnel: ML + JS
Date: 9/20/11

Well Number: G-14
Total Depth: 8.30 ± opposite
Depth to Water: 34.56
Screened Interval: unknown
Pump Intake: 18ft from bottom
Sample Method: low flow

Pump On time: 1010
Pump Off Time: 1100
Sample Time: ~~9H~~ 1042
Sample Parameters:

TIME (3 - 5 minutes)	DTW (<0.3 ft.)	Flow Rate (<500 ml/min)	pH (0.1 units)	Temp (0.1 degrees)	DO (10%)	Conductivity (3%)	ORP ~~pH~~ (+/- 10)	Turbidity (10%)	Salinity	Water Conditions	Iron
1014	9.1	<500	8.17	27.46	~~8441~~ 1.10	8490	-31.2	10.3	—	clear	—
1017	9.2	<500	7.51	27.98	1.12	8552	-57.0	5.9	—	clear	—
1020	9.05	<500	7.47	28.05	0.96	8530	-67.2	4.1	—	clear	—
1023	9.1	<500	7.45	28.07	1.30	8487	-73.4	4.9	—	clear	—
1026	9.17	<500	7.44	28.07	1.01	8442	-78.5	6.1	—	clear	—
1029	9.14	<500	7.43	28.08	0.96	8406	-81.9	6.5	—	clear	—
1032	9.18	<500	7.43	28.09	1.13	8369	-84.1	5.6	—	clear	—
1035	9.15	<500	7.42	28.10	1.04	8332	-85.7	5.0	—	clear	—
1038	9.10	<500	7.41	28.12	1.06	8297	-85.9	5.0	—	clear	—
1041	9.15	<500	7.40	28.13	1.04	8409	-85.7	2.3	—	clear	—

Sample SCA-GW08/K
9/20/11 @ 1042

Site: St. Croix Alumina
Personnel: ML + JS
Date: 9/20/11

Well Number: GM-19
Total Depth: 60.50 ↕ opposite
Depth to Water: 23.50
Screened Interval: Unknown
Pump Intake: 14ft
Sample Method: Low Flow

Pump On time: 1200
Pump Off Time: 1300
Sample Time: 1230
Sample Parameters:

TIME (3 - 5 minutes)	DTW (<0.3 ft.)	Flow Rate (<500 ml/min)	pH (0.1 units)	Temp (0.1 degrees)	DO (10%)	Conductivity (3%)	ORP ~~eH~~ (+/- 10)	Turbidity (10%)	Salinity	Water Conditions	Iron
1201	6.6	<500	8.09	24.46	8.24	16	32.4	36.1	—	clear	
1204	7.02	<500	7.50	27.56	1.34	53767	64.2	7.1	—	clear	—
1207	7.10	<500	7.52	27.89	0.85	54018	61.6	2.3	—	clear	—
1210	7.07	<500	7.53	27.88	0.87	54085	59.9	2.6	—	clear	—
1213	7.10	<500	7.53	27.88	0.98	54068	58.2	2.5	—	clear	—
1216	7.11	<500	7.54	27.97	1.05	54036	56.9	6.3	—	clear	—
1219	7.15	<500	7.54	28.02	1.10	54068	55.8	1.0	—	clear	—
1222	7.09	<500	7.55	27.98	1.18	54092	54.7	0.7	—	clear	—
1225	7.15	<500	7.54	28.02	1.22	54042	54.2	0.3	—	clear	—
1228	7.11	<500	7.55	28.08	1.25	54043	53.7	0.0	—	clear	—

Sample SCA-GW09/F (G-VG)
9/20/11 @ 1230

Site: St. Croix Alumina
Personnel: ML+JS
Date: 9/20/11

Well Number: G-7
Total Depth: 7.55 ft opposite
Depth to Water: 21.31
Screened Interval: unknown
Pump Intake: 14ft
Sample Method: low flow

Pump On time: 1430
Pump Off Time: 1445
Sample Time:
Sample Parameters:

TIME (3 - 5 minutes)	DTW (<0.3 ft.)	Flow Rate (<500 ml/min)	pH (0.1 units)	Temp (0.1 degrees)	DO (10%)	Conductivity (3%)	ORP eH (+/- 10)	Turbidity (10%)	Salinity	Water Conditions	Iron
1431	8.15	<500	8.84	29.31	4.23	2273	-44.6	94.7	—	clear	—
1435	11.21	<500	8.47	30.06	0.79	1880	-39.6	140.0	—	cloudy	—
1439	13.02	<500	8.42	30.26	1.48	1799	-37.0	193.5	—	brown cloudy	—
1443	13.80	<500	8.43	30.11	2.13	1732	-32.8	219.0	—	cloudy	—
1447		<500									
1451		<500									

Due to plunging DTW, pump dropped to bottom

See next page

Site: St. Croix Alumina
Personnel: ML+JS
Date: 9/20/11

Well Number: G-7
Total Depth: 7.55 ↓ opposite
Depth to Water: 21.31
Screened Interval: unknown
Pump Intake: 21 Ft
Sample Method: lowflow

Pump On time: 1455
Pump Off Time: 1515
Sample Time:
Sample Parameters:

TIME (3 - 5 minutes)	DTW (<0.3 ft.)	Flow Rate (<500 ml/min)	pH (0.1 units)	Temp (0.1 degrees)	DO (10%)	Conductivity (3%)	eH (+/- 10)	Turbidity (10%)	Salinity	Water Conditions	Iron
1456	15.10	<500	8.46	29.87	4.08	1699	17.05	237.6	—	cloudy	—
1459	15.29	<500	8.49	29.51	4.88	1742	-4.5	610.4	—	cloudy	—
1502	15.49	<500	8.48	28.93	5.22	1802	0.8	1952.2	—	cloudy	—
1505	15.60	<500	8.45	28.97	2.65	1857	4.0	1952.6	—	turbid	—
1508	16.24	<500	8.43	29.34	1.71	1905	4.5	1958.7	—	turbid	—
1511	16.47	<500	8.43	29.19	2.77	1905	4.9	1956.5	—	turbid	—
1514	17.50	<500	8.43	29.19	2.57	1903	5.5	1956.6	—	turbid	—

Note very soft bottom

Spoke with G. Gilliland and well purged dry. Will return and sample when recharged.

Site: St. Croix Alumina
Personnel: ML + JS
Date: 9/20/11

Well Number: VW-37
Total Depth: 49.22
Depth to Water: 62.10 ↕ opposite
Screened Interval: unknown
Pump Intake: 55ft
Sample Method: low flow

Pump On time: 1605
Pump Off Time: 1735
Sample Time: 1641
Sample Parameters:

TIME (3 - 5 minutes)	DTW (<0.3 ft.)	Flow Rate (<500 ml/min)	pH (0.1 units)	Temp (0.1 degrees)	DO (10%)	Conductivity (3%)	ORP ~~eH~~ (+/- 10)	Turbidity (10%)	Salinity	Water Conditions	Iron
1610	49.26	<500	7.87	27.69	7.00	2133	46.9	107.9	—	cloudy	—
1613	49.27	<500	7.56	27.56	6.10	2163	51.6	75.8	—	clear	—
1617	49.25	<500	7.53	27.55	6.26	2162	54.3	63.0	—	clear	—
1621	49.24	<500	7.52	27.52	6.30	2160	58.5	58.4	—	clear	—
1624	49.25	<500	7.51	27.51	6.34	2158	60.3	56.3	—	clear	—
1628	49.25	<500	7.50	27.50	6.35	2155	63.2	75.2	—	clear	—
1632	49.25	<500	7.51	27.49	6.31	2153	65.4	58.1	—	clear	—
1636	49.26	<500	7.50	27.49	6.29	2150	67.8	61.4	—	clear	—
1640	49.27	<500	7.51	27.48	6.28	2148	69.8	59.3	—		—

Sample SCA-GW01/F (GVG)
9/20/11 @ 1641

Site: St. Croix Alumina
Personnel: JS & ML
Date: 9/21/11

Well Number: 13D
Total Depth: 20.91 * opposite
Depth to Water: 55.92
Screened Interval: unknown
Pump Intake: 33
Sample Method: low flow

Pump On time: 820
Pump Off Time: 950
Sample Time: 915
Sample Parameters: VOC, Inorganics, chlorides

TIME (3 - 5 minutes)	DTW (<0.3 ft.)	Flow Rate (<500 ml/min)	pH (0.1 units)	Temp (0.1 degrees)	DO (10%)	Conductivity (3%)	ORP ~~eH~~ (+/- 10)	Turbidity (10%)	Salinity	Water Conditions	Iron
0821	21.05	<500	9.33	28.89	3.31	91653	114.3	12.5	—	clear	—
0825	21.08	<500	9.41	28.93	0.36	9759	58.1	-2.2	—	clear	—
0830	21.07	<500	9.41	28.96	0.34	9728	-19.4	-2.6	—	clear	—
0835	21.02	<500	9.40	28.96	0.29	9690	-83.5	-2.8	—	clear	—
0840	21.08	<500	9.40	28.96	0.24	9786	-145.8	-3.3	—	clear	—
0845	21.02	<500	9.16	28.96	0.24	13294	-182.4	-3.5	—	clear	—
0850	21.05	<500	9.19	28.97	0.25	12852	-211.8	-3.5	—	clear	—
0853	21.05	<500	9.20	28.98	0.27	12476	-224.6	-3.6	—	clear	—
0856	21.05	<500	9.23	28.97	0.25	12106	-234.8	-3.5	—	clear	—
0859	21.07	<500	9.24	28.98	0.17	12003	-243.0	-3.5	—	clear	—
0902	21.03	<500	9.26	29.00	0.17	11697	-250.4	-3.5	—	clear	—
0905	21.08	<500	9.27	28.98	0.15	11501	-257.1	-3.6	—	clear	—
0908	21.06	<500	9.28	28.98	0.14	11399	-262.1	-3.5	—	clear	—
0911	21.07	<500	9.28	28.99	0.14	11348	-266.8	-3.6	—	clear	—

Sample SCA-GW05/F
9/21/11 @ 0915 GVG

Site: St. Croix Alumina
Personnel: ML + JS
Date: 9/21/11

Well Number: G-22
Total Depth: 46.83 ↓ opposite
Depth to Water: 30.00
Screened Interval: Unknown
Pump Intake: 25ft
Sample Method: low flow

Pump On time: 1115
Pump Off Time: 1245
Sample Time: 1155
Sample Parameters: VOC, semivolatiles, Aroclors, Inorganics, Chloride

TIME (3 - 5 minutes)	DTW (<0.3 ft.)	Flow Rate (<500 ml/min)	pH (0.1 units)	Temp (0.1 degrees)	DO (10%)	Conductivity (3%)	ORP ~~eH~~ (+/- 10)	Turbidity (10%)	Salinity	Water Conditions	Iron
1116	17.0	<500	12.06	30.45	3.53	23201	-7.7	36.1	—	clear	—
1119	17.18	<500	12.50	29.04	1.13	24212	-5.7	15.6	—	clear	—
1122	17.22	<500	12.59	28.90	0.95	25271	-10.7	10.9	—	clear	—
1125	17.28	<500	12.62	28.87	0.96	25953	-14.6	8.4	—	clear	—
1128	17.29	<500	12.66	28.86	0.77	27114	-20.5	8.4	—	clear	—
1131	17.27	<500	12.68	28.81	0.67	27650	-26.0	7.6	—	clear	—
1134	17.26	<500	12.70	28.79	0.52	28140	-36.3	11.9	—	clear	—
1137	17.28	<500	12.72	28.79	0.43	28561	-47.0	11.3	—	clear	—
1140	17.27	<500	12.74	28.80	0.40	28983	-59.3	11.0	—	clear	—
1144	17.29	<500	12.75	28.84	0.33	29344	-68.7	8.3	—	clear	—
1147	17.28	<500	12.77	28.82	0.30	29675	-69.2	5.8	—	clear	—
1150	17.32	<500	12.78	28.82	0.31	29890	-76.3	5.2	—	clear	—
1153		~~<500~~									

Sample SCA-GW06/F
9/21/11 @ 1155
GUG

*water while sampling was a yellow color

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(RENAISSANCE PARK)

KINGSHILL, ST. CROIX,
U.S. VIRGIN ISLANDS

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CONTENTS

PAGE	REFERENCE	DATE
2-19	SW/SED SAMPLING	9/12-15/2011

St. Croix Alumina SW/sed sampling 9/12/11

0700 Weston arrives onsite and sets up to start sampling in the mangrove area of the site for surface water and sediment. ——— MZ

0730 Health and safety meeting led by A. Byrum. Sampling logistics meeting led by G. Gilliard and E. Knydit. —MZ

Team members: Michele Lortz and Joe Schmidl (Weston). —MZ

Health & safety: slips, trips, and falls, proper PPE and keep hydrated. ——— MZ

Weather: lows 80s, cloudy, slight breeze, on and off showers, humid. ——— MZ

0937 Weston mobilized through internal gate by lower cooling pond and notified main gate. ——— MZ

0950 Weston observed that one sample jar size was missing and mobilized back to office. ——— MZ

Michele Lortz 9/12/11

0954 Weston went through internal gate again. ——— MZ

1012 Weston went through internal gate. -MZ

1040 Set pot MAN-SW09 / MAN-SED09. pH for water is 7.79. MZ ——— MZ

1045 Surface water sample collected

1047 Sediment sample MAN-SED09 collected and GPSed. ——— MZ

1100 Mobilized to MAN-SW/SED10 —MZ

1115 pH is 7.79 with 1 inch of water on mudflat area, Location GPSed. —MZ

1120 Surface water MAN-SW10 collected.

1125 Sediment MAN-SED10 collected. —MZ

1140 Mobilized to MAN-SW/SED11. —MZ

1143 pH of surface water is 8.30. Location GPSed. ——— MZ

1145 Surface water MAN-SW11 collected. -MZ

1147 Sediment sample MAN-SD11 collected

1210 Lunch. ——— MZ

1320 Mobilized back out to mangrove sediment/surface water. ——— MZ

1333 Called main gate and drove through gate by lower cooling pond

Michele Lortz 9/12/11

St. Croix Alumina surface water/ sediment sampling 9/12/11

1410 ~~0210~~ Arrived at MAN-SW12. pH of water was 10.25. Location GPSed.
1412 Surface water MAN-SW12 collected
1415 Sediment MAN-SD12 collected.
1425 Arrived at MAN-SW/SD-16. pH of water is 9.70. Location GPSed
1430 Surface water MAN-SW16 collected. water is directly west of the effluent of the mangrove swamp. *Photo 1 & 3*. Brown turbid scum floating on top of water. *Photo 2*.
1435 Sediment MAN-SD16 collected.
1500 Tried to calibrate pH meter and standard 7 is reading 10. No pH to be taken in field.
1525 Arrived at ~~SW~~ MAN-SW/SD13. Location GPSed.
1530 Surface water MAN-SW13 collected.
1533 Sediment MAN-SD13 collected.
1545 Torrential rainshower so break in car until it lessens.
1600 Mobilized to MAN-SW/SD08

michele Zorz 9/12/11

9/12/11 St. Croix Alumina sediment/ surface water sampling

1615 ~~1615~~ to surface water MAN-SW08 collected.
1620 Sediment MAN-SD08 collected.
1635 Mobilized to MAN-SW/SD14 & 15.
1700 surface water MAN-SW15 collected
1705 Sediment MAN-SD15 collected
1710 Mobilized to MAN-SW/14/SD14.
1715 Surface water MAN-SW14 collected.
1720 Sediment MAN-SD14 collected.
1740 Mobilized back to office.
1753 Called guard shack to notify them traveling through gate.
1806 Downloaded GPS coordinates
1845 pH readings on ~~sediment~~ surface water samples. MAN-SW08 = pH - 8.06
MAN-SW12 = pH 8.13.
MAN-SW13 = pH 8.52.
MAN-SW14 = pH 8.67.
MAN-SW15 = pH 9.06.
MAN-SW16 = pH 8.05.
1900 sample management.
1930 Team departs site.

michele Zorz 9/12/11

Team members Michele Lortz, Joe Schmidl, Anthony Daniels (Weston)

Weather mid 80s, chance of rain showers

Health & Safety Chance of weather storms, safety vest & hard hat near landfill.

Scope Continue to sample surface water/sediment. Plan to collect ACC and BG samples.

0700 Arrive at office and continue to prepare sample bottles sets

0720 Headed to offsite background locations to recon accessibility

0840 Returned to office and packed car for sampling.

0920 Health and safety meeting.

0930 Mobilized to ACC-SW/SD01

0950 Headed through lower cooling pond gate.

0950 Set up at ACC-SW01/SD01 MS/MSD. pH is 9.31. Location GPSed.

0952 Surface water ACC-SW01 collected

0957 Sediment sample ACC-SD01 collected.

1010 Set up at ACC-SW/SD04. GPSed location. pH is 8.05.

Michele Lortz 9/13/11

1012 Surface water ACC-SW04 collected.

1020 Sediment ACC-SD04 collected.

1080 Arrived at ACC-SW/SD-02/03 location. to walk through mangroves to edge

1045 After a couple attempts, deemed unable to get through from roadway.

1100 Navigate to ACC-SW05.

1105 pH is 7.55. Location GPSed.

1107 Surface water ACC-SW05 collected

1110 Sediment ACC-SD05 collected.

1130 Arrived at ACC-SW06. pH is 8.05. Location GPSed.

1135 Surface water ACC-SW06.

1140 Sediment ACC-SD06 collected.

1145 Arrived at ACC-SW07. pH is 8.44 Location GPSed.

1147 Surface water ACC-SW07 collected

1150 Sediment ACC-SD07 collected.

1205 Drove through garage gate to ACC-SW52.

1210 Set up at ACC-SW52. pH is 8.08. Location GPSed.

1212 Surface water ACC-SW52 collected.

1215 Sediment ACC-SD52 collected.

Michele Lortz 9/13/11

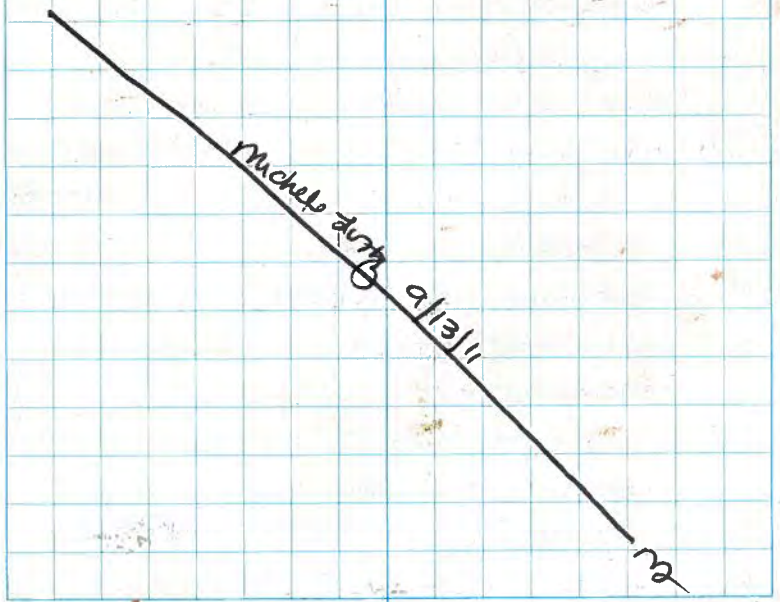
St. Croix Alumina sediment/surface water sampling 9/13/11

1217 Drove through garage gate and called Maingate. Locked behind. —mb
1221 Sprayed off car at garage. —mb
1245 Lunch. —mb
1345 Mobilized offsite to landfill to collect BG samples. —mb
1410 Set up at BG-SW54. Location GPSed. —mb
1412 Surface water BG-SW54 collected.
1415 sediment BG-SD54 collected. —mb
1420 Navigated and set up at BG-SW53.
1422 Surface water BG-SW53 collected. Location GPSed. —mb
1425 Sediment BG-SD53 collected. —mb
1440 Set up at BG-SW55. —mb
1447 Surface water BG-SW55 collected. Location GPSed. —mb
1453 Sediment BG-SD55 collected. —mb
1513 Set up at BG-SW56. Location GPSed
1515 Surface water BG-SW56 collected.
1518 Sediment BG-SD56 collected. —mb
1530 Returned back to office and helped with sample management. —mb
1635 sediment samples measured out

Michele Lentz 9/13/11

9/13/11 St. Croix Alumina sediment/surface water

and mixed with DI water to sit for 1hr before pH is measured. pH measured from water samples BG-SW53 = 6.98, BG-SW54 = 7.54 BG-SW55 = 7.89, BG-SW56 = 7.54. —mb
1645 Surface water metals preserved to pH less than 2. —mb
1730 completed sediment pH readings —mb
1749 Labelled samples and completed sample management. —mb
1830 Departed site. —mb



Michele Lentz 9/13/11

St. Croix Alumina sediment/surface water sampling 9/14/11

Weather mid 80s, sunny, chance of storms.

Team Members Michele Lortz, Anthony Daniels (Weston).

Health & safety work safely and dont trek anywhere not safe, take breaks, hydrate.

0700 Arrived at office and prepped bottle for sampling. Team logistics - 2 sediment teams for morning.

0800 Health and safety meeting.

0830 EPA is screening background locations for RAD detections. When they finish they will be ready to RAD screen our locations.

NOTE All sediment logged on separate log sheets.

0900 GPS data file transfered to EPA.

0945 Set up at LCP-SW/SD27. Location GPSed. pH is 8.50 at 37.4°C. No RAD readings to move our locations. 2088 cpm detected on RAD meter.

0957 surface water LCP-SW27 collected.

1000 sediment LCP-SD27 collected.

Michele Lortz 9/14/11

1012 Setup at LCP-SW26. RAD meter screened area. pH is 8.18 at 30.8°C. 1300 cpm RAD at sample point.

1019 Surface water LCP-SW26 collected.

1021 Sediment LCP-SD26 collected.

1030 Set up at LCP-SW28. RAD meter screened area, pH is 8.10 at 29.8°C 1218 cpm RAD at sample point.

1035 surface water LCP-SW28 collected.

1037 sediment LCP-SD28 collected.

1050 setup at LCP-SW29. RAD meter screened area. pH is 8.75, temp at 35.0°C. 2174 cpm RAD at sample point.

1051. Surface water LCP-SW29 collected

1054 Sediment LCP-SD29 collected

1100 His break.

1130 Starting moving from Waste Area B to lower cooling pond through outfall. Location LCP-SW/SD30 moved to outfall. RAD detection at outfall is 2883 cpm. pH is 10.16 at 36.0°C. Location GPSed.

1133 Surface water LCP-SW30 collected.

1136 Sediment LCP-SD30 collected.

1155 Set up at ADP-SW49.

Michele Lortz 9/14/11

St. Croix Alumina sediment / water 9/14/11

1203 7090 cpm at the water location ADP-SW49. pH is 9.65 at 30.6°C Location GPSed. 11296 cpm on edge of ash disposal pond where sediment collected. —3

1205 Surface water ADP-SW49 collected —

1207 Sediment ADP-SD49 collected. —3

1215 set up at ADP-SW48. RAD meter screening being done. 2320 cpms detected. pH is 9.61 at 31°C.

1218 Surface water ADP-SW48 collected

1220 Sediment ADP-SD48 collected. —

1245 set up at ADP-SW50. RAD meter screening being done. 4337 cpm detected. pH is 9.61 at 32.6°C.

1248 surface water ADP-SW50 collected.

1251 Sediment ADP-SD50 collected. —

1308 Set up at ADP-SW51. pH is 9.57 at 37.9°C. RAD screening done in area. 3539 cpm at proposed beach area. —3

1310 Location shifted due to RAD screening levels of 4150 cpm. Location GPSed

Michele Zertz 9/14/11

9/14/11 St Croix Alumina sediment / surface water samplings

pH is 9.57 at 36.1°C. —10

1318 Surface water ADP-SW51 collected

1320 Sediment ADP-SD51 collected. —3

1325 Highest sediment RAD at ADP-SD49 so RAD sample to be collected there.

1330 RAD sample at ADP-SD49. RAD levels 12698 cpm. —3

1331. Reading on sample ~6000 cpm. —3

1333 14220 cpm on red area on side of ash disposal pond. sample collected.

1340 red mud ADP-SD49 RAD collected. —

1350 Washed down car at garage. —10

1400 Lunch. —2

1500 meeting to discuss afternoon logistics and sample bottle set prep. RAD information given to EPA. —10

1550 mobilized to UCP-SW/SD39. —3

1615 Inaccessible from where we parked.

1645 set up to sample RMS locations —

1715 Set up at PM UCP-SW39. pH is 8.18 at 31.8°C. RAD meter is 31099 cpm —3

1720 Surface water UCP-SW39 —10

1725 Sediment UCP-SD39 collected. —4

1735 mobilized back. →

Michele Zertz 9/14/11

St. Croix Alumina sediment/ surface water samplings 9/14/11

1735 set up at UCP-SW40. RAD meter is 29934 cpm. pH is 8.27 and 30.3°C. Location GPSed. —
1740 Surface water UCP-SW40. — m
1745 Sediment UCP-SD40 collected. —
1800 Set up at UCP-SW41. RAD meter is 24955 cpm. Location GPSed. pH is 9.88 at 31°C. — m
1805 Surface water UCP-SW41. —
1810 Sediment UCP-SD41. — m
1815 moved RMS-SW45 north 75ft. RAD meter screened 32415 cpm Location GPSed. pH is 9.85 at 30.1°C. — m
1817 Surface water RMS-SW45 and RAD water sample collected. —
1820 Sediment RMS-SD45 and RAD sediment collected. — m
1840 Returned to office. — m
1900 Unpacked samples. Washed red mud from car. Provided EPA with RAD data. — m
1945 Departed site. — m

9/14/11
Michele Lertz

Weather low 80s, sunny → going to high 80s, chance of showers. — m
Team members Michele Lertz & Anthony Daniels (Weston). — m
Health & Safety Use sunblock, keep hydrated. — m
0700 Arrived at office and prepared sample sets for continued sediment sample collection. — m
0815 Headed out RMS-SW46. — m
0820 Set up at RMS-SW46. pH is 9.53 at 27.37°C. Location GPSed.
0825 Surface water RMS-SW46. — m
0828 Sediment RMS-SD46 collected. —
0850 Moved RMS-SW47 upward the mudflow from waste pile.
Photo taken of mud flow area. — m
0855 Sediment RMS-SD47 collected No water sample due to no water present. Location GPSed. — m
0900 Set up at RMS-SD42/43 which was moved to the outflow closest to the access road near the mud pile. Photo taken

Michele Lertz 9/15/11

St. Croix Alumina sediment/ surface sampling 9/15/11

0901 surface water RMS-SW42 collected
0902 surface water dup RMS-SW43. —mz
0907 sediment RMS-SD42 collected. —
0908 sediment RMS-SD43 collected. —
pH is 10.10 at 29.35°C. —
0915 Returned to office and unloaded samples. —
0930 Washed cars before leaving site. —mz
0950 Parked up at landfill and started walk to MAN-SW19. —
1010 Set up at MAN-SW19. Location GPSed. pH is 7.90 at 29.5°C
1012 surface water MAN-SW19. —
1016 Sediment MAN-SD19 collected. —
1030 Returned to site. —mz
1045 EPA wanted to access different sample methods on soil waste pile so Weston unpacked samples and waited. —mz
1130 Logistics meeting to discuss plan for remainder of day. —
1145 mobilized to try to find a location for ACC-SW02/03. —mz

Michele Lentz 9/15/11

1154 Weston & EPA traveled through lower cooling pond gate. —mz
1225 Unable to get closer to ACC-SW02/03 from beach area.
1226 Headed through gate by lower cooling pond to try to traverse outflows to channel. —mz
1240 Location looks inaccessible and need to reconveen about location. —mz
1305 Lunch. —mz
1400 mobilized to MAN-SW18. —
1412 mobilized through west ditch gate. —mz
1420 set up to navigate to MAN-SW18
1430 Man observed spear fishing in ocean near MAN-SW18. —mz
1445 EPA trying to find where red mud flows into ocean to try to move MAN-SW18. —mz
1446 Spoke with man who was checking on fish pots out in ocean. Robelos, lives in Prophet community up hill. Fishes with nets (3 nets stated out) Looking for snapper and has caught

Michele Lentz 9/15/11

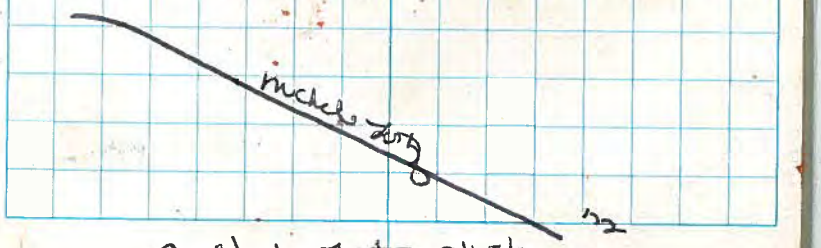
9/15/11 St. Croix Alumina sediment surface water sampling

Snapper up to 17-18 inches. —
No phone number for the fisherman. —
Fish collected for consumption
1500 Set up at MAN-~~SW18~~ SW18-INV. Location GPSed. pH is 8.65 at 35.0°C. —
1503 Surface water MAN-SW18. —
1506 Sediment MAN-SW18 collected. —
1515 EPA decided MAN-SW18 was not representative of anything we wanted to sample. No visual observation of red mud impact so location scrapped. ——»
1535 Weston/EPA motored through west ditch gate. ——»
1600 Set up at UCP-SW36. Location GPSed. pH is 8.65 at 35.6°C. —»
1602 Surface water sample collected. —
1605 Sediment UCP-SD36 collected. —»
1650 Set up at WES-SW25. No water at this location. Spoke to EPA and they are ok with not collecting a water sample. —
1657 Sediment WES-SD25 collected. —
1915 Headed towards UPC-38 & UCP-39

Michele Zurtz 9/15/11

9/15/11 St. Croix Sediment/surface water sampling

1930 Set up at UCP-SW38. ——»
1732 pH is 8.40 at 30.87°C.
Location GPSed. ——»
1734 Surface water UCP-SW38 collected
1736 Sediment UCP-SD38 collected. —
1745 RAD surface water and sediment to be collected at A UCP-SW39, —»
1750 Surface water RAD sample collected at UCP-SW39. ——»
1752 Sediment RAD sample collected at UCP-SD39. ——»
1800 EPA requested that we collect a RAD sample from UCP-SW39 due to the high levels of RAD detected yesterday. ——»
1815 Samples dropped off at office
1845 GPS file downloaded. ——»
1850 Assisted with sample management.
1930 Departed site. ——»



Michele Zurtz 9/15/11

WESTON SOLUTIONS

Sediment

GVG ~~GEOPROBE Soil Boring Log~~

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/13/11	Boring Method/ Sample Method Scoop GVG ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ GVG ~~Drill Foreman~~	Completion Depth 6in	
	Location ACC-SW/SD01	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			yellow coarse to fine sand w/ shell	ACC-SD01	Time 0957 GVG

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
GEOPROBE Soil Boring Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/13/11	Boring Method/ Sample Method Scoop Geoprobe / Macrocore 4-ft 5-ft	
Drilling Co. GVC	Completion Depth 6in	
Drill Foreman	Location ACC-SD/SW04	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
					TIME
			yellow coarse to fine sand w/ shell fragments	ACC-SD04	1020 GVC

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

(GVG) Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/13/11	Boring Method/ Sample Method Scoop (GVG) ~~Geoprobe / Macrocore 4-ft 5-ft~~	
~~Drilling Co.~~ (GVG)	Completion Depth 6in	
~~Drill Foreman~~	Location ACC-SW/SD05	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown silt & fine sand w/ organic root matter	ACC-SD05	Time 1110 (GVG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON

Sediment

GVC ~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/13/11	Boring Method/ Sample Method Scoop GVC ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ GVC ~~Drill Foreman~~	Completion Depth 6 in	
	Location ACC-SW/SD06	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			yellow coarse to fine sand	ACC-SD06	TIME 1140 GVC

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/13/11	Boring Method/ Sample Method: Scoop & ~~Geoprobe / Macrocore 4-ft 5-ft~~	
~~Drilling Co.~~	Completion Depth: 6 in	
~~Drill Foreman~~	Location: ACC-SW/SD07	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			yellow coarse to fine sand	ACC-SD07	Time 1150

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
GVR ~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/12/11	Boring Method/ Sample Method Scoop GVR ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~	Completion Depth 6 in	
~~Drill Foreman~~ GVR	Location MAN-SD/SW08	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			yellow coarse to fine sand w/shell pieces	MAN-SD08	Time 1620 GVR

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

Sediment

~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/12/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4-ft 5-ft~~	
~~Drilling Co.~~	Completion Depth: 6in	
~~Drill Foreman~~	Location: MAN-SW/SD-09	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			yellow tan coarse to fine sand w/ shell pieces	MAN-SD09	TIME 1047

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/12/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~	Completion Depth: 6 in	
~~Drill Foreman~~	Location: MAN-SW-SD-10	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown med to fine sand w/ some clay & silt	MAN-SD10	TIME 1125

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/12/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4-ft 5-ft~~	
~~Drilling Co.~~ ~~Drill Foreman~~	Completion Depth: 6in	
	Location: MAN-SW/SD-11	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown fine sand w/silt & clay	MAN-SD11	Time 1147

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring Log~~

Job Name: St. Croix Alumina	Boring No.	Logged By: MC
Job No.	Page 1 of 1	
Date Drilled: 9/12/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~	Completion Depth: 6 in	
~~Drill Foreman~~	Location: MAN-SW/SD 12	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			yellowtan coarse to fine sand w/some shell fragments	MAN-SD12	TIME 1415

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/12/11	Boring Method/ Sample Method Scoop ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ GVC	Completion Depth 6 in	
~~Drill Foreman~~	Location MAN-SW/SD13	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown fine sand and silt w/ some clay	MAN-SD13	TIME 1533 GVC

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment

~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/12/11	Boring Method/ Sample Method Scoop ~~Geoprobe / Macrocore 4-ft 5-ft~~	
~~Drilling Co.~~	Completion Depth 6 in	
~~Drill Foreman~~	Location MAN-SW/SD14	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown silt and clay w/some fine sand	MAN-SD14	TIME 1720

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/12/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ ~~Drill Foreman~~	Completion Depth: 6 in	
	Location: MAN-SD15WS	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown silt & clay w/some fine sand	MAN-SD15	Time 1705

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment

~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/12/11	Boring Method/ Sample Method Scoop ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ ~~Drill Foreman~~	Completion Depth 6 in	
	Location MAN-SW/SD16	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			yellow course to fine sand w/ some shell pieces	MAN-SD16	TIME 1435

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

Sediment

~~GEOPROBE Soil Boring~~ Log

Job Name: ST CROIX ALUMINA	Boring No.	Logged By: GG
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4-ft OR 5-ft~~	
~~Drilling Co.~~ GVG	Completion Depth: 6"	
~~Drill Foreman~~	Location: MAN-SW17	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			COARSE SAND (SHELL FRAGS) MIXED w/ RED MUD (0-1"), UNDERLAIN BY DK-BROWN ORGANIC MUCK (SILT/CLAY)	MAN-SD17	TIME 1025 GVG

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type (circle): Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/15/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4-ft 5-ft~~	
~~Drilling Co.~~	Completion Depth: 6 in	
~~Drill Foreman~~	Location: MAN-SW-SD19	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			Yellow coarse to fine sand w/shell fragments	MAN-SD19	Time 1016

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

~~GEOPROBE Soil Boring~~ Sediment Log

Job Name: ST CROIX ALUMINA	Boring No.	Logged By: GG
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: SCOOP ~~Geoprobe / Macrocore 4-ft OR 5-ft~~	
~~Drilling Co.~~ ~~Drill Foreman~~ GVC	Completion Depth: 6"	
	Location: MAN-SW20	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			WETLANDS MUCK ORGANIC CLAY & SILT; RED 0-1", DK-GRAY BENEATH; SATURATED	MAN-SD20	TIME 1140 GVC

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type (circle): Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: BG
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4 ft OR 5 ft~~	
~~Drilling Co.~~	Completion Depth: 6"	
~~Drill Foreman~~ GYQ	Location: MAN-SW21	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			MED GRAY-BROWN WETLANDS MUCK (SATURATED ORGANIC SILT/CLAY); AREA THICK W/ MANGROVES	MAN-SD21	TIME 1235

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type (circle): Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

~~GEOPROBE Soil Boring~~ Sediment Log

Job Name: ST CROIX ALUMINA	Boring No.	Logged By: AB (transcribed from logbook by GG)
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4-ft OR 5-ft~~	
~~Drilling Co.~~	Completion Depth: 6"	
~~Drill Foreman~~ (GVG)	Location: WES-SW22	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
					TIME
			RED MUD IN BROWN SEDIMENTS;	WES-SD22	1637
			EAST SIDE OF DITCH @ WATER'S EDGE	WES-SD23	(DUPLICATE)
					@1638 (GVG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type (circle): Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment GEOPROBE ~~Soil Boring~~ Log

Job Name ST CROIX ALUMINA	Boring No.	Logged By AB (transcribed from logbook by GG)
Job No.	Page 1 of 1	
Date Drilled 9/14/11	Boring Method/ Sample Method SCAP Geoprobe / ~~Macrocore 4-ft OR 5-ft~~	
~~Drilling Co.~~ GVG	Completion Depth 6"	
~~Drill Foreman~~	Location WES-SW24	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			BROWN/BLACK ORGANIC SEDIMENTS; SOME VEG., 3-4' OF STANDING WATER AT LOCATION.	WES-SD24	TIME 1727 GVG

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type (circle): Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON

GVG Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/15/11	Boring Method/ Sample Method: Scoop (VG) ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ ~~Drill Foreman~~ GVG	Completion Depth: 6 in	
	Location: WES-SW/SD25	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			red silt & fine sand w/ some clay	WES-SD25	TIME 1657 GVG
			[NO WATER AT LOCATION] GVG		

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4-ft 5-ft~~	
~~Drilling Co.~~ ~~Drill Foreman~~	Completion Depth: 6in	
	Location: LCP-SD/SW26	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			light brown fine sand and silt w/some pebbles	LCP-SD26	TIME 1021

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4-ft 5-ft~~	
~~Drilling Co.~~	Completion Depth: 6 in	
~~Drill Foreman~~	Location: LCP-SD/SW27	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown silt & fine sand w/some clay & organics	LCP-SD27	Time 1000

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ Drill Foreman: ~~S-VG~~	Completion Depth: 6in	
	Location: LCP-SW28	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			yellow coarse to fine sand	LCP-SD28	Time: 1037 BVB

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

(GVG) Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/14/11	Boring Method/ Sample Method Scoop (GVG) ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ (GVG) ~~Drill Foreman~~	Completion Depth 6 in	
	Location LCP-SW1SD29	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown med to fine sand w/ some silt	LCP-SD29	TIME 1054 (GVG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring Log~~

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop (Geoprobe / Macrocore ~~4 ft 5 ft~~)	
~~Drilling Co.~~ CVC	Completion Depth: 6in	
~~Drill Foreman~~	Location: LCP-SD/SW30	

Depth (Feet)	Recovery (% or Inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown sut, clay and some fine sand	LCP-SD30	1136 TIME

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

(2VC) Sediment

~~GEOPROBE Soil Boring Log~~

Job Name (CWC) SCA St Croix Alumina	Boring No. ~~MW~~ LCP-SW31 (2VC)	Logged By GG
Job No.	Page 1 of 1 LCP-SW31	
Date Drilled 9/14/11	Boring Method/ Sample Method SCOOP (2VC) ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ (2VC) ~~Drill Foreman~~ N/A	Completion Depth 6".	
	Location LCP-SW31	

Depth (Feet)	Recovery (% or Inches)	PID every 6"	Visual Description	Sample No.	Comments
			THIN RED FILM, THEN ~~RED~~-BROWN (CWC) (1"), THEN DK-GRAY MUCK (ORGANIC SILT/CLAY)	LCP-SD31	@ 1050 (2VC)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name: ST CROIX ALUMINA	Boring No.	Logged By: GG
Job No.	Page 1 of 1	
Date ~~Drilled~~: 9/14/11	Boring Method/ Sample Method: SCOOP ~~Geoprobe / Macrocore 4-ft OR 5-ft~~	
~~Drilling Co.~~	Completion Depth: 6"	
~~Drill Foreman~~ GVG	Location: LCP-SW32	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			1/2-INCH LAYER OF RED MUCK, BROWN MUCK BENEATH (ORGANIC, SATURATED SILT/CLAY - WETLAND DEPOSITS)	LCP-SD32	@1120 GVG TIME

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type (circle): Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name: ST CROIX ALUMINA	Boring No.	Logged By: GG
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4-ft OR 5-ft~~	
~~Drilling Co.~~	Completion Depth: 3"	
~~Drill Foreman~~	Location: LCP-~~SD33~~ SW33	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			DENSE RED MUD NODULES; UP TO 3" THICK; @ WATER'S EDGE; MANGROVES PRESENT	LCP-SD33	TIME 1205

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type (circle): Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

GEOPROBE Soil Boring Log

Job Name: St Croix Alumina	Boring No.	Logged By: AB (transcribed from logbook by GG)
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop (GVG) ~~Geoprobe / Macrocore 4 ft OR 5 ft~~	
~~Drilling Co.~~ ~~Drill Foreman~~ (G-YG)	Completion Depth: 6"	
	Location: UCP-SW34	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			RED MUD BANK NEAR SPILLWAY; 8" STANDING WATER	UCP-SD34	TIME 1625 (GVG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type (circle): Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

GEOPROBE Soil Boring Log

Job Name: ST CROIX ALUMINA	Boring No.	Logged By: AB (transcribed from logbook by GG)
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: SCOOP ~~Geoprobe / Macrocore 4-ft OR 5-ft~~ (GVG)	
~~Drilling Co.~~ (GVG) ~~Drill Foreman~~	Completion Depth: 6"	
	Location: UCP-SW35	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			RED MUD IN SEDIMENTS IN MUD FLAT; RED MUD BANK, CLEAR WATER	UCP-SD35	Time 1705 (GVG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type (circle): Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/15/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ ~~Drill Foreman~~	Completion Depth: 6 in	
	Location: UCP-SW/SD36	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			red silt, clay and fine sand	UCP-SD36	Time 1605

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name ST Croix Alumina	Boring No.	Logged By AB (transcribed from logbook by GG)
Job No.	Page 1 of 1	
Date Drilled 9/14/11	Boring Method/ Sample Method Scoop (Geoprobe / Macrocore ~~4 ft OR 5 ft~~)	
~~Drilling Co.~~	Completion Depth 6"	
~~Drill Foreman~~ GG	Location UCP-SW37	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			RED MUD, HEAVY SILTING; NEXT TO SMALL ISLAND IN UCP	UCP-SD37	TIME 1743 GVS

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type (circle): Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/15/11	Boring Method/ Sample Method: scoop (Direct Push) ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ (GVC)	Completion Depth: 6 in	
~~Drill Foreman~~	Location: UCP-SW38	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			red fine sand, silt & clay	UCP-SD38	TIME 1736

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

GVG Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop (GVG) ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ GVG ~~Driller~~	Completion Depth: 6 in	
~~Drill Rig Type~~	Location: UCP-SW/SD39	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			red clay w/some fine sand, soft	UCP-SD39	TIME 1725 (GVG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON

GVG Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/14/11	Boring Method/ Sample Method Scoop (GVG) ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ (GVG) ~~Drill Foreman~~	Completion Depth 6 in	
	Location UCP-SW/SD40	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			red clay w/some trace fine sand, soft	UCP-SD40	Time 1745 (GVG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

(G-VG) Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop (G-VG) ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ (G-VG) ~~Drill Foreman~~	Completion Depth: 0 in	
	Location: UCP-SWSD41	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			red clay w/some silt & fine sand	UCP-SD41	TIME 1810 (G-VG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

GVG Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/15/11	Boring Method/ Sample Method: Scoop GVG ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ GVG ~~Drill Foreman~~	Completion Depth: 6 in	
	Location: RMS-SW/SD42/43	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			red clay and silt w/some fine sand	RMS-SD42	TIME 0907
				RMS-SD43	0908 (DUPLICATE) GVG

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON

Sediment
GVG ~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/14/11	Boring Method/ Sample Method SCOOP GVG ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ GVG ~~Drill Foreman~~	Completion Depth 6in	
	Location RMS-SW/SD45	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			red clay w/some silt & fine sand	RMS-SD45	TIME 1820 GVG

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

(G-VG) Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/15/11	Boring Method/ Sample Method Scoop (G-VG) ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ (G-VG) ~~Drill Foreman~~	Completion Depth 6 in	
	Location RMS-SW/SD46	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			red clay w/some fine sand and silt	RMS-SD46	TIME 0828 (G-VG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

(GVG) Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/15/11	Boring Method/ Sample Method Scoop (GVG) ~~Geoprobe / Macrocore 4-ft 5-ft~~	
~~Drilling Co.~~	Completion Depth 6in	
~~Drill Foreman~~ (GVG)	Location RMS-SW/SD47	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			red clay w/some fine sand and silt	RMS-SD47	TIME 0855 (GVG)
			[NO WATER AT LOCATION] (GVG)		

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop (G-VG) ~~Geoprobe / Macrocore 4-ft 5-ft~~	
~~Drilling Co.~~ (G-VG)	Completion Depth: 6 in	
~~Drill Foreman~~	Location: ADP-SW/SD48	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
					TIME
			yellow coarse to fine sand	ADP-SD48	1220 (G-VG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON

(GVG) Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: MC
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop (GVG) ~~Geoprobe / Macrocore 4 ft 6 ft~~	
~~Drilling Co.~~ (GVG) ~~Drill Foreman~~	Completion Depth: 6 in	
	Location: ADP-SW/SD49	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			black silt and clay w/some fine sand	ADP-SD49	Time 1207 (GVG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

(GVG) Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop (GVG) ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ (GVG) ~~Drill Foreman~~	Completion Depth: 6in	
	Location: ADP-SW1SD50	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown silt & clay w/ some fine sand	ADP-SD50	TIME 1251 (GVG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

(GVG) Sediment ~~GEOPROBE~~ Soil Boring Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/14/11	Boring Method/ Sample Method: Scoop (GVG) ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ (GVG) ~~Drill Foreman~~	Completion Depth: 6 in	
	Location: ADP-SW1SD51	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown silt, clay w/some fine sand	ADP-SD51	TIME 1320 (GVG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

(G.V.G.) Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/13/11	Boring Method/ Sample Method Scoop (G.V.G.) ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ (G.V.G.) ~~Drill Foreman~~	Completion Depth 6in	
	Location ACC-SW/SD52	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			yellow brown coarse to fine sand	ACC-SD52	TIME 1215 (G.V.G.)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

(G-VG) Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/13/11	Boring Method/ Sample Method Scoop (GVG) ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~ (G-VG)	Completion Depth 6in	
~~Drill Foreman~~	Location BG-SW/SD53	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			yellow coarse to fine sand	BG-SD53	TIME 1425 (G-VG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON

Sediment
GVG ~~GEOPROBE Soil Boring~~ Log

Job Name St. Croix Alumina	Boring No.	Logged By ML
Job No.	Page 1 of 1	
Date Drilled 9/13/11	Boring Method/ Sample Method Scoop GVG ~~Geoprobe / Macrocore 4-ft 5-ft~~	
~~Drilling Co.~~ GVG	Completion Depth 6in	
~~Drill Foreman~~	Location BG-SW/SD54	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			yellow coarse to fine sand	BG-SD54	TIME 1415 GVG

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

GVG Sediment ~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/13/11	Boring Method/ Sample Method: Scoop (GVG) ~~Geoprobe / Macrocore 4-ft 5-ft~~	
~~Drilling Co.~~	Completion Depth: 6in	
~~Drill Foreman~~ GVG	Location: BG-SW/SD55	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown fine sand and silt	BG-SD55	Time 1453 (GVG)

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No (GPS) Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

WESTON SOLUTIONS

Sediment
~~GEOPROBE Soil Boring~~ Log

Job Name: St. Croix Alumina	Boring No.	Logged By: ML
Job No.	Page 1 of 1	
Date Drilled: 9/13/11	Boring Method/ Sample Method: Scoop ~~Geoprobe / Macrocore 4 ft 5 ft~~	
~~Drilling Co.~~	Completion Depth: 6 in	
~~Drill Foreman~~	Location: BG-SW-SD56	

Depth (Feet)	Recovery (% or inches)	PID every 6"	Visual Description	Sample No.	Comments
			brown fine sand and silt	BG-SD56	Time 1518

Depth to Groundwater: _____

Monitoring Well Installed? YES NO

Monitoring Well ID: _____

Location surveyed? Yes No GPS Surveyor Other

Backfill Type: Cuttings Cuttings/Bentonite Bentonite Asphalt / Concrete

ST. CROIX ALUMINA
(Renaissance Park)
WETLANDS LOGBOOK



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FIELD
No. 351

FIELD LOGBOOK # 4

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9 September 2011 St. Croix Alumina

Wetlands Survey.

12:55 Weston Solutions Wetlands Scientists Joseph Schmidl and Michele Lortz began survey of extent of wetlands along the downstream pathway from the St. Croix Alumina site. We began our survey along the western edge of the Renaissance Group Property, along the access road.

13:15 We arrive at the southern end of the access road, near the junction of the lacustrine wetlands mapped to the east of the road and the estuarine wetlands mapped to the east. Our observations confirm the presence of vegetated mangrove swamps (white mangrove and button mangrove, with minor red mangrove) on both sides of the roadway.

13:30 We continue southeastward along the causeway, confirming continuous mangrove swamp along both sides of the causeway, except for the upland area mapped on the NWI map. Our survey confirms the accuracy of the NWI map.

9 September 2011 St. Croix Alumina

13:40 We have reached the southeastern corner. The beach is a scarp face, with a caliche layer that is about 18 inches thick, that erodes away to expose a sandy layer beneath. We make two advances to the beach in this area, finding white mangroves and button mangroves, the dominant species, and both wetland indicators. In addition, we observe a few plant beds just beyond the surf zone, which also constitute wetlands.

14:00 We proceed northerly on the access road and pass through the internal gate on the road east to the southern (lower) settling pond. We can now observe the mangrove swamps that are located in the settling pond to the west, and the channel to the east (estuarine swamp). These are beautiful examples of dense red mangrove swamps along the estuary side, and white mangroves predominate on the settling (55) pond side. Both swamps are

9 SEPTEMBER 2011 St. Croix Alumina

continuous along both water bodies, and red mangroves are even present in the small gap in the estuarine wetlands located on the NWI map. There also appear to be lacustrine swamp wetlands surrounding the edge of the small pond located east of the Red Mud Disposal Areas. We take a series of photos which document the vegetation along the access roads and the beach.

14:30 We return to the office.

11 SEPTEMBER 2011 St. Croix Alumina Site

Following further reconnaissance, these further observations have been made.

The estuarine wetland located south of the Lower cooling pond is a classic barrier island complex, with a beach, dune area, marsh lagoon, and a flat, low lying shoreline on the landward side, as depicted below.



It is clear that the access road was constructed across the natural lagoon, which would have originally included the lower Cooling Pond. The Beach area is sandy, with reefs immediately offshore, which include marine plant beds.

The Dune area is dominated by portia tree (Thespesia populnea) which is Facultative, as well as salt the Marsh area is dominated by algal mats and Black Mangroves (Avicennia germinans) characterized by expanses of pneumatophores. with some White Mangroves (Laguncularia racemosa) all of which are hydrophytes.

11 SEPTEMBER 2011 St. Croix Alumina Site

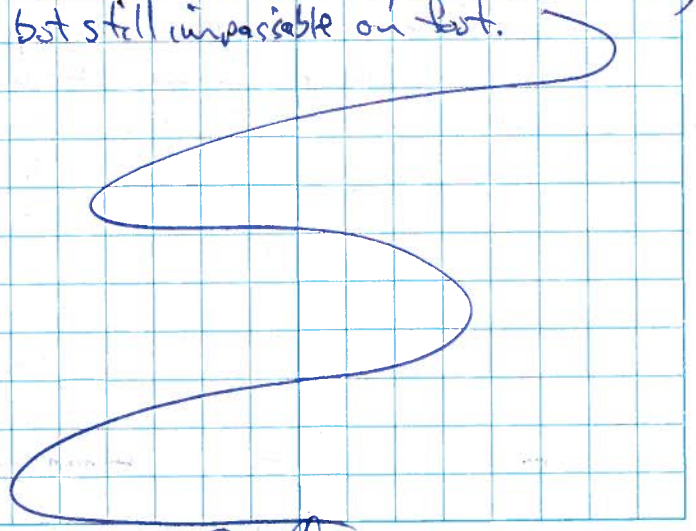
Where the access road crosses the lagoon area, Black Mangroves and White mangroves are growing along the berm for the road. In the Lower Cooling Pond, the bottom of the pond below the mangrove fringe is covered with algal mats, and is very shallow, typically less than 6 inches deep for as far as can be observed from the edge. Regarding the sides of the inlet used for shipping traffic, the water is much deeper (presumably dredged to maintain shipping access), and the fringing area is a wide mangrove swamp. The water in this area is deeper (between 6 inches and 2ft) and generally inaccessible by foot - we have to climb amongst the mangroves to access this area.

The Upper Cooling Pond also has fringing black mangrove swamps, but these fringes are relatively thin (10 to 30 ft wide), as the banks are steeper and higher resulting in upland habitat. There is also common salt wort in these areas, particularly in the southern portion of the Upper

Jill

11 SEPTEMBER 2011 St. Croix Alumina Site

Cooling Pond. There are no algal mats. The West Ditch also has fringing black and white mangrove swamp, and like the Upper Cooling Pond, the banks are steep and the bordering wetlands are therefore narrow (10-20 ft). The West Ditch is of unknown depth, but appears to be steep-banked, and may be up to 6 ft deep. There is no apparent emergent vegetation in the active West Ditch. In the former West Ditch, the black mangroves extend further into the ditch, which is shallower, but still impassable on foot.

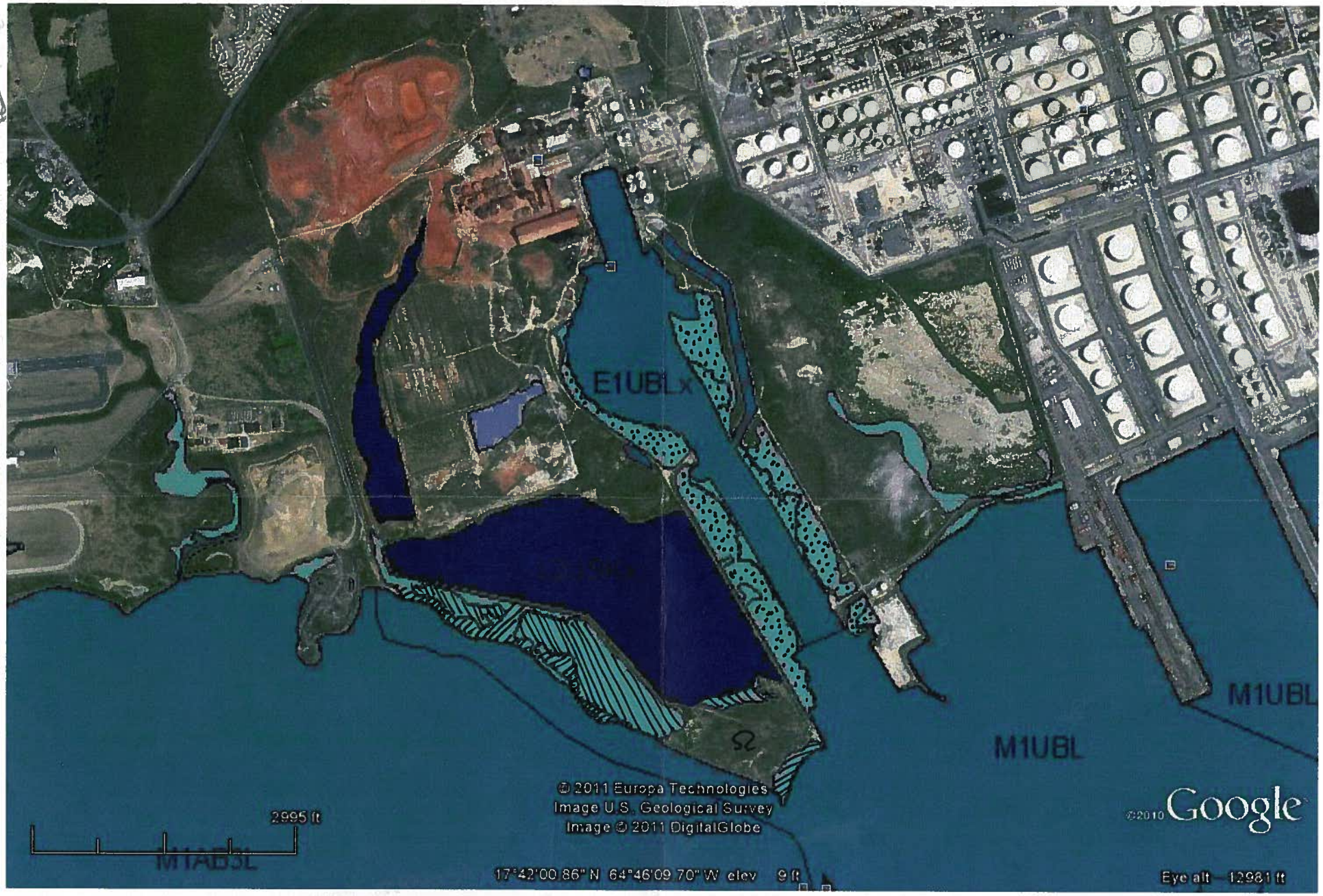


Jill

16 September 2011 ST. CROIX AUDUBON SITE

We have now reconsidered the background surface water west of the west ditch, known as the Gut. The topography of this area is higher than that to the east, resulting in a deeply incised natural meandering channel, and one oxbow pond, clearly visible on the aerial photograph. The Oxbow pond and the gut are estuarine wetlands, comprising dense red mangrove swamps. The beach area between the Gut and the oxbow pond is dominated by portia tree and saltwort, with a few white mangroves. The fringing wetlands are relatively narrow in this area as well.

Attached
Wetland Map,
Annotated.



= Barrier Island Mangrove Swamp Ω = Upland

= Lagoon

Page 9 of Logbook for Wetlands

Joseph Schmidl 9/16/11

St. Croix Alumina Site
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RED-MUD Sampling +
Background Sampling.

Logbook #1

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PAGE	REFERENCE	DATE
	Anthony Daniels → A.D.	
	Derrick Cobb → D.C.	
	ALEX BYRUM → AB	
	JOE SCHMIDL → JS	
	MICHELE LORTZ → ML	

9/12/11 St. Croix Alumina

0700 A.D. and D.C. arrive on-site. Attend morning health and safety Meeting.
0820 Begin Preparing equipment and Supplies for the day. —DC
0840 A.D. and D.C depart the Command Post to collect Background Soil Samples —DC
0845 ~~0745~~ Return to the COMMAND POST to load Sample Points into the GPS. —DC
0930 Depart the COMMAND POST FOR Background Sample Locations —DC
0950 Arrive At BG-01. Prepare to collect Samples —DC
10:00 Collect [BGS01-03 (Surface)] for TAL Metals, TCL SVOCs, TCL Aroclors, and Radio Active Parameters. MS/MSD —DC
10:10 Refusal at BG-S01 ≈ 4" Below Ground Surface. No at depth sample Collected.
10:15 Depart BG-S01. —DC
10:33 Arrive at BG-S02 Prepare to collect Soil SAMPLE —DC
1035 COLLECT SOIL SAMPLE [BG-S02-00] Surface SOIL SAMPLE - TAL METALS.
1050 COLLECT SOIL SAMPLE [BG-S02-16]

9/12/11 ST. CROIX ALUMINA.

COLLECTED 16-INCHES Below GROUND SURFACE (REFUSAL) - TAL METALS. —DC
1055 DEPART BG-S02 FOR THE COMMAND POST. —DC
1102 ARRIVE AT COMMAND POST. HEAVY RAIN. BREAK FOR LUNCH. —DC
1200 RETURN FROM LUNCH. RESUME BACK GROUND SOIL SAMPLING —DC
1210 DECON VEHICLE TO LEAVE THE SITE FOR BG-S03, S-04, S-05, S06
1230 RETURN TO COMMAND POST UNABLE TO ACCESS BG-S03, S04, S05, AND S06 DUE TO VEGETATION AND SWAMP/ MARSH AREA. —DC
1245 DEPART COMMAND POST. FOR NEW BACKGROUND LOCATIONS. —DC
1255 ARRIVE AT NEW BG-S03 LOCATION
1300 COLLECT SAMPLE [BG-S03-00] - TAL METALS. —DC
1305 REFUSAL 6-INCHES BGS. NO AT DEPTH SAMPLE COLLECTED. —DC
1310 DEPART BG-S03. —DC
1317 ARRIVE AT 6TH BG-S05. —DC
1325 REFUSAL AT ≈12-inches. WILL COLLECT

9/12/11 ST. CROIX ALUMINA

DUPLICATE FROM THE SURFACE SAMPLE.
1330 COLLECT SAMPLE BG-S05 - SURFACE SOIL SAMPLE. TAL METALS, TCL SVOCs TCL AROCLORS.
1335 COLLECT SAMPLE BG-S06 (DUP) SURFACE SOIL SAMPLE. TAL METALS, TCL SVOCs, TCL AROCLORS.
1340 DEPART BG-S05
1345 ARRIVE BG-S04.
1347 COLLECT SAMPLE BG-S04-00 - SURFACE SOIL SAMPLE. TAL METALS.
1350 REFUSAL AT ~10 INCHES. NO AT DEPTH SAMPLE COLLECTED.
1355 DEPART BG-S04. FOR COMMAND POST.
1410 COLLECT RINSATE SAMPLE. BG-RIN06 METALS ANALYSIS.
FIELD pH.= 1.91
1420 ASSIST SAMPLE MANAGEMENT WITH PROCESSING SAMPLES FOR SHIPMENT.
1600 CONTINUE WITH SAMPLE PROCESSING AND SAMPLE MANAGEMENT.
1930 END OF LOG DAY.

D 9/12/11

9/13/11 ST. CROIX ALUMINA

0700 A.D. and D.C. arrive on-site.
0705 D.C. and ALEX BYRUM DEPART THE
0830 SITE FOR SUPPLY RUN.
0850 D.C. AND ALEX BYRUM RETURN TO THE SITE. A.D. PREPARING FIELD
0845 EQUIPMENT AND SAMPLE CONTAINERS.
0900 A.D. AND D.C. BUILD DECON PAD.
0915 A.B. CONDUCTS MORNING HEALTH AND SAFETY MEETING. TOPICS COVERED WEATHER - 50% CHANCE OF RAIN SHOWERS, LIGHTING, SLIPS/TRIPS/FALLS, PPE
0930 J.S., M.L., A.D. DEPART THE COMMAND POST FOR SURFACE WATER/SEDIMENT SAMPLING. D.C. ASSIST WITH SAMPLE MANAGEMENT
1100 D.C. CONTINUES ASSISTING WITH SAMPLE MANAGEMENT/PROCESSING.
1200 A.B. and D.C. depart THE SITE FOR SUPPLY RUN.
1300 RETURN FROM SUPPLY PREPARE TO BEGIN RADIATION SURVEY OF THE RED MUD PILE.
1310 BEGIN RAD SURVEY/SCREENING ON

6

9/13/11 ST. CROIX ALUMINA

THE RED MUD PILE. ——— DC

1645 COMPLETE RED MUD PILE RAD SURVEY SCREENING. RESULTS: CRUST 30-50 KILO-COUNTS. CREVASSE RESULTS — DC 60-90 KILOCOUNTS. ——— DC

1700 DECON VEHICLES AT MAINTENANCE AREA. ——— DC

1720 ATTEND PLANNING MEETING FOR RED MUD/SITE RAD SCREENING/ — DC SAMPLING. ——— DC

1800 PLANNING MEETING ENDS. UNLOAD VEHICLE. RETURN EQUIPMENT/SUPPLIES.

1830. DEPART THE SITE. END OF LOG — DC DAY ——— DC

D

9/13/11

7

9/14/11 ST CROIX ALUMINA

0700 A.B, A.D. AND D.C. ARRIVE ON-SITE.

0710 BEGIN PREPARING HEALTH AND SAFETY EQUIPMENT/FIELD EQUIPMENT.

0740 MORNING HEALTH AND SAFETY MEETING HOSTED BY A.B. TOPICS COVERED - SLIPS/TRIPS/FALLS, ROUGH TERRAIN, HYDRATION, HEAT STRESS.

0745 - D.C. DEPARTS THE SITE TO PICK-UP ADDITIONAL SAMPLING SUPPLIES. ——— DC

0825 RETURN TO THE SITE. NAVIGATE TO THE RED MUD PILE TO LOCATE PROPOSED SAMPLE LOCATIONS. ——— DC

0845 NAVIGATE TO RMA WST-~~01~~ ——— DC

0857 ~~ADD~~ DC NAVIGATE TO RMA WST-08 — DC

0910 NAVIGATE TO ~~RMADC~~ RMA-WST 07

0925 NAVIGATE TO RMA-WST-14 ——— DC

1004 NAVIGATE TO RMA-WST-02 — EK

1012 NAVIGATE TO RMA-WST-09 — EK

1080 NAVIGATE TO RMA-WST-~~07~~ 15 — EK

1035 NAVIGATE TO RMA-WST-16 ——— DC

1057 NAVIGATE TO RMA-WST-10 — EK

1115 DEPART THE RED MUD PILE FOR THE COMMAND POST. ——— DC

1120 ARRIVE AT THE COMMAND POST.

20401.132.024.5068

9/14/11 ST. CROIX ALUMINA

ASSIST SAMPLE MANAGEMENT WITH PROCESSING SAMPLES. ——— dc

1200 BREAK FOR LUNCH. ——— dc

1300 RETURN FROM LUNCH. PREPARE SUPPLIES FOR RED MUD PILE ——— dc

1320 EK, DGSS back on red mud pile - GK

1330 NAVIGATE TO RMA-WST-17 ——— EK

1400 NAVIGATE TO RMA-WST-03 ——— dc

1415 NAVIGATE TO RMA-WST 04 ——— dc

1420 NAVIGATE TO RMA-WST 05 ——— dc

1425 NAVIGATE TO RMA-WST 06 ——— dc

1430 NAVIGATE TO RMA-WST 13 ——— dc

1447 NAVIGATE TO RMA-WST 20 ——— dc

1455 NAVIGATE TO RMA-WST 19 ——— dc

1500 NAVIGATE TO RMA-WST 18 ——— dc

1508 NAVIGATE TO RMA-WST 11 ——— dc

1518 NAVIGATE TO RMA-WST 12. PLACED FLAG ON WEST EDGE OF SURFACE WATER POND. EXACT PROPOSED SAMPLE LOCATION LOCATED UNDER WATER ——— dc

1530 DEPART THE RED MUD PILE FOR THE COMMAND POST. ——— dc

1540 ARRIVE AT COMMAND POST ASSIST WITH SAMPLE PREPERATION/SHIPMENT

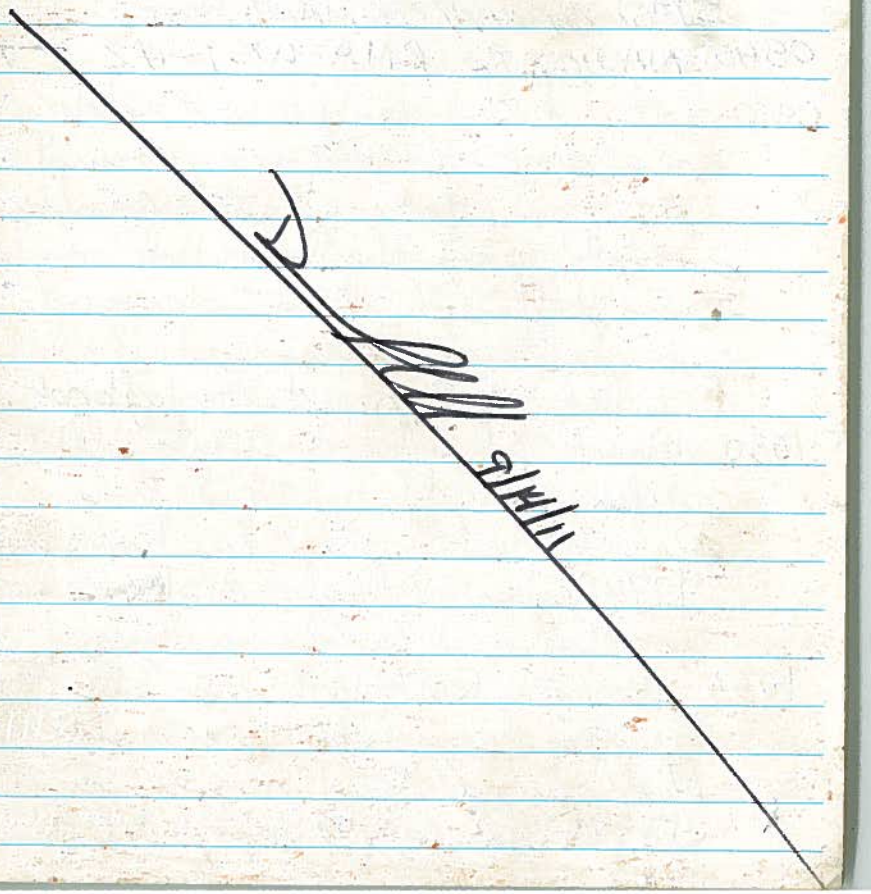
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9/14/11 ST. CROIX ALUMINA

1700 DEPART THE SITE TO PICK UP ADDITIONAL FIELD SUPPLIES. ——— dc

1750 RETURN TO THE SITE. CONTINUE ASSISTING WITH SAMPLE ~~MANAGE~~ MANAGEMENT. ——— dc

2000 END OF LOG DAY. DEPART THE SITE.



9/15/11 ST. CROIX ALUMINA

0700 A.B, AD and D.G. arrive on-site

0710 LOAD EQUIPMENT, PPE, AND SAMPLING SUPPLIES

0800 DEPART COMMAND POST FOR THE ~~MUD~~ RED MUD PILE

0813 ARRIVE ON RED MUD PILE, SET-UP STAGING AREA/ COMMAND POST.

0845 NAVIGATE RMA-WST-02 R

0910 Collected Rad sample and metals sample @ RMA-WST-02, Normal 43886 cpm. Red mud waste surface sample. prep the down hole samples. Severe difficulty obtaining down hole sample tube into and out of the bore hole. A. Byrum takes logbook.

1030 - moved to RMA-WST-03 to collect surface sample, red mud, on a slope on north side, dry, homogeneous 47740 cpm, Collected surface samples for Rad and Metals analysis.

1055 - Moved to RMA-WST-04 to collect surface sample (A) - red mud, N of surface water body, homogeneous. 43445 cpm, collected Rad & Metals sample.

2/15/11 St. Croix Alumina

1120 - moved to RMA-WST-12 (offset) to collect surface sample, adjacent to surface water pond @ top of the pile, silty with moisture on location.

LATE ENTRY - 1135 - RMA-WST-02B Collected from tube - 2-4' depth for metals & RAD. - No Rad screening done on down hole sample, which was collected using geoprobe coring.

1145 - walked back to staging area.

1200 - Leave RMA area for lunch

1250 - Back on-site, gathering supplies for PM sampling @ RMA area.

1320 - Drive back to staging area, prep for PM sampling effort.

1410 - Begin work on RMA for subsurface sampling @ RMA-WST-03B, 04B & 12B.

1430 - Collected RMA-WST-03B - from 4.5' depth on reverse side next to surface pile (to E).

1451 - Collected RMA-WST-04B - from 4' depth on reverse wall S of surface pile.

1455 Move to RMA-WST-12 RMA to collect sample.

1500 - 67065 cpm - Hole @ WST-12B,

9/15/11 St. Croix Alumina

1500 cont - Collected RMA-WST-12B, RAD, Organics + Metals. Also collected organics RMA-WST-12A sample, and RAD Water sample from pond in the RMA area.

1522 - Collected RMA-WST-05 A+B @ off-set location. CPM: 49801 surface RAD + Inorganics. - Down hole - 86329 cpm. - 3-4' depth for B.

1545 - Collected RMA-WST-06 A+B @ flag location - 3-4' depth for B. Surface = 44014 cpm

Downhole = 57470 cpm Crevasse area

1600 - @ RMA-WST-13-A+B

Downhole - crevasse - 69385 - cpm

Surface = 45169 cpm

1610 - Collected RMA-WST-13 A+B

1635 - Collected RMA-WST-20 A+B

Surface = 42856 cpm

Downhole crevasse = 44621 cpm

1655 - Moved to RMA-WST-18 A+B

63549 cpm - in crevasse

4980 cpm - surface

1700 - Collected samples @ RMA-WST-18 A+B from surface & in crevasse next (S).

9/15/11 St. Croix Alumina

1700 cont. - Samples collected and logged By SAM-940 - 60 uR/hr on surface

1730 - Sampled water on top of RMA area - for Radiation, directly E of RMA-WST-12 sample site. using 5 gallon cubitainer.

1733 - Walk back to staging area, doff PPE, collect samples to take down to sample mgmt, Auger bucket for Rinsate sampling, and supplies/IDW to store @ training building

1745 - Leave staging area, arrival @ training building.

1800 DECON EQUIPMENT FOR RINSATE SAMPLE

1825 COLLECT RINSATE SAMPLE. WST-RIN01 SVOCs, PCBs, METALS, RAD.

1930 DEPART THE SITE. END OF LOG DAY.

9/15/11

Weather Mid 80s, sunny, hot, humid, chance of storms.

Team members M. Lartz, A. Daniels, D. Cobb, A. Byrum, & E. Krydt (Weston)

Health & safety Keep hydrated, buddy system, slips, trips, & falls.

0700 Weston arrives on site and starts prepping for continued red mud soil sampling on Red Mud Area A.

0800 EPA arrives onsite.

0805 Health and safety meeting.

0830 Arrive at decon tent on RMA and don PPE.

0850 mobilized to RMA-WST19A|B.

0851. EPA starts RAD monitoring.

0852 44934 cpm at surface location RMA-WST19A.

0855 RMA-WST-19A collected. Locations GPSed.

0856 46973 cpm in crevice location.

0857 started hand augering in crevice to collect RMA-WST19B.

0900 Crevice location is 5ft below ground surface. RMA-WST19B collected.

Michele Lartz 9/16/11

0901 EPA runs separate scan. 51.7 micro R per hour dose and thorium 232 detected.

0908 set up at RMA-WST09. RAD screening conducted.

0910 41708 cpm at RAD surface.

0915 RMA-WST09A surface and RMA-WST09B in crevice collected.

0916 Crevice RAD is 77719 cpm at a depth of 7ft.

0917 SAM monitoring on crevice sample. Count of 3 mins. Thorium 232 at 49.5 uR per hour dose.

0930 set up at RMA-WST08. Location GPSed. 41267 cpm at surface location.

0935. Sample RMA-WST08A collected and subsurface RMA-WST08B collected.

0936 RAD subsurface is 57091 cpm. subsurface depth is 4.5ft.

0945 set up at RMA-WST07. Location GPSed.

0950 426085 cpm at surface location. RMA-WST07A collected at surface. RMA-WST07B subsurface collected.

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951 67639cpm on subsurface soil. —
952 SPM being done on surface soil. Subsurface depth collected at 8ft. 49.8μR per hour dose for Thorium 232. —
1000 Walk back to cars for health and safety break. —
1035 Set up at RMA-WST01. Location GPSed. —
1037. 28773cpm at surface location
1040 surface RMA-WST01A collected and subsurface RMA-WST01B coleded. —
1045 Duplicate on subsurface RMA-WST01C collected. —
1046 RAD reading down subsurface auger hole is 68139 cpm. SPM screening at surface is Thorium 232 at 38.2μR per hour. Depth is 4ft for subsurface location. —
1055 Set up at ~~WST~~ RMA-WST10. Location GPSed. —
1100 Surface sample RMA-WST10A collected. 40531 cpm RAD at surface. Subsurface 6525 cpm RAD at subsurface. RMA-WST10B

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collected. —
1105 Subsurface depth is 5-6ft. —
1106 SPM on subsurface soil is Thorium 232 at 46.8μR per hour. —
1115 Set up at RMA-WST11. Location GPSed. 47359 cpm at surface RAD.
1120 Surface RMA-WST11A collected and subsurface RMA-WST11B collected. —
1125 Duplicate RMA-WST11C collected at surface. —
1126. 86584cpm on subsurface location. —
1127 Depth of 8ft on subsurface soil. —
1135 Packed up all material from pile and mobilized samples back to office. —
1200 Lunch. —
1315 Logistics meeting to discuss plan for afternoon work and accessibility of locations. —
1320 EPA requested a half hour to get resorted before we head out. —
1350 Mobilized back to RMA. —
1357 Set up at RMA-WST17. 37365 cpm at surface location.

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Location GPSed. ——→
1400 RMA-WST17A and RMA-WST17B, surface and subsurface collected. subsurface is only 3ft deep until rock. 73147cpm down hole subsurface. Isotope identification to be done at this location. ——→
1405 SAM-940 detected Thorium 232 at 43.9μR per hour. ——→
1410 Set up at RMA-WST16. Location GPSed. Surface RAD reading is 31662cpm. ——→
1415 surface RMA-WST16A and subsurface RMA-WST16B collected. ——→
1416 60777cpm on subsurface location RAD. ——→
1417 Depth of subsurface is 7.5ft. ——→
1423 RMA-WST5 to be relocated. Across roadway in outfall area. ——→
1425 RMA-WST15 shifted 30ft west.
1430 33043 cpm on RMA-WST15A surface. ——→
1435 RMA-WST15A surface and RMA-WST15B subsurface collected.
1436 40790 cpm on subsurface soils.

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1440 Unable to collect subsurface after hand augering at 4 different locations. ND subsurface at RMA-WST15. ——→
1441 SAM-940 done at surface soil. Detected Thorium 232 at 33.9μR per hour.
1445 Set up at RMA-WST14. surface RAD is 20243 cpm. Location GPSed. ——→
1450 surface RMA-WST14A and RMA-WST14B subsurface collected. subsurface RAD level 42179cpm. ——→
1455 SAM-940 done at subsurface location. Subsurface detected at 3.5ft. Subsurface detection is unidentified at 15.6μR. ——→
1515 Returned to office. Sample management of todays samples. ——→
1600 Sample coolers to Fedex. ——→
1700 Departed site. ——→

michele dotts

michele dotts 9/16/11

9/17/11 ST. CROIX ALUMINA

0700 A.B and D.C along with Sampling Team.

0710 Prepare Equipment AND SUPPLIES FOR RED MUD PILE RAD SURVEY.

0850 A.D AND DC BEGIN RAD SURVEY WITH EPA OF RED MUD PILE.

1135 DEPART THE RED MUD PILE TO DOWNLOAD THE RAD DATA.

1200 ARRIVE AT COMMAND POST TO DOWN LOAD THE FIELD DATA.

1215 BREAK FOR LUNCH.

1315 RETURN ~~FOR~~ FROM LUNCH. PREPARE TO RESUME RED MUD PILE RAD SURVEY.

1340 RESUME RED MUD SURVEY (A.D and D.C with EPA)

1445 DEPART THE RED MUD PILE.

1450 ARRIVE AT COMMAND POST TO DOWNLOAD RAD DATA.

1600 DEPART THE SITE. END OF LOG DAY.

9/17/11

9/19/11 ST. CROIX ALUMINA

0700 WESTON TEAM ARRIVES ON-SITE

0705 BEGIN PREPARING EQUIPMENT, SUPPLIES, AND PPE FOR SAMPLING ACTIVITIES.

0735 DEPART COMMAND POST FOR RED MUD PILE B

0740 ARRIVE AT RED MUD PILE B.

0750 @ RMB-WST-39, A. Byram takes log. Surface Count = 32846 cpm. AB

Subsurface = 83671 cpm AB

0800 - Collected RMB-~~WW~~ST-39 A & B next to stream cut / flow path away. B sample collected @ approx 3' depth. ~~to~~ 8'

~~0810~~ 0810 - Collected samples @ ~~10~~ depth RMB-WST-37 A & B. - B @ 8' depth.

Surface count - 29275 cpm AB

subsurface count - 73027 cpm AB

0835 - Collected RMB-WST-~~39~~ A+B - 38 B @ 0 depth. - Not Collected

Surface counts = 39246 cpm. AB

B sample Not collected because water is at ~~Approx~~ 4-6" depth in the hole AB

~~0910~~ 0910 Collected RMB-WST-36 A+~~B~~ NO B sample

Surface - 41554 cpm Collected due to Augur refusal

B sample collected @ 0 depth - Augur refusal

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0929 - Auger refusal @ 24" depth due to caliche rock. Three additional locations near the original 36 point were investigated and all had caliche rock close to surface.

0935 - Collected RMB-WST-34 A+B
surface counts = 31243 cpm NO SAM
subsurface = 73376 cpm reading - low
B sample collected @ 3.5-4' depth.

0940 - completed samples, walked back to staging area where Belinda are.

1010 - moved to ADP area, to collect points 41 and 42

1015 - collected ADP-WST-41 A+B + C (sub dup)
counts - surface = 6942 cpm
subsurface = 7001 cpm hole
B/C samples collected @ 4' Bgs depth, due to hole collapsing into perched water.

1035 - collected ADP-WST-42 A+B Added MS/MSD for Inorganics on surface
Surface = 6136 cpm
Subsurface = 10847 cpm
B sample collected @ 4' depth BGS.

LATE ENTRY - Duplicate @ ADP-WST-41-C called @ 1020 hours for sample mgmt.

All samples collected in ADP area.

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1045 - Complete ADP-WST sampling
move back to command post
to repack and drop off samples from prep and packaging for shipping.

1115 - Driving back to RMB area from the command post.

1135 - Collected samples @
RMB-WST-29 A+B.
Surface = 29432 cpm
Subsurface = 89340 cpm
B sample collected @ 3.5' depth

1200 - Collected RMB-WST-40 A+B -
Surface = 21510 cpm NO B sample collected
Subsurface = Not collected
B sample collected @ ___ depth BGS
NO B sample collected because of caliche in the hole @ 24" depth

1210 - Moved to RMB-WST-30 A+B
31344 Surface CPM Collected @
84596 subsurface cpm 1210 hrs
B sample collected @ 4.0' depth BGS.
due to groundwater intrusion.

1230 - Moved / collected RMB-WST-28 A+B
Surface counts = 38522 cpm
Subsurface counts = 72418 cpm

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1230 Cont. - Collected B sample @ 4' depth BGS due to water intrusion in the hole.

1235 - Completed RMB-WST-28 A+B, moved to RMB-WST-32 A+B.

1245 - Collected RMB-WST-32 A+B - west to UCP - on berm - NO B sample Surface - 15927 cpm Augen had caliche rock in it @ 8-12" depth.

1300 - Walked back to vehicles, loaded equipment, drove back to command post.

SAMPLES COLLECTED TO THIS TIME:
RMB-WST-32A, 28A, 28B, 30A, 30B, 40A, 29A, 29B, 34A, 34B, 36A, 38A, 37A, 37B, 39A, 39B, 40A. ADP-WST-41A, 41B, 42A, 42B. Also added RMC source area

1430 - Collected RINO3 sample from RMB augen bucket after decon.

1510 - Move back to RMB area to collect rest of RMB samples (N area)

1520 - Collected RMB-WST-22 A+B
Surface = 36338 cpm
Subsurface = 72763 cpm
B depth = 10' ft BGS, @ base of caliche spoil hill, SE of settling pond.
No ~~Incorporate~~ organic bottle collected.

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1520 cont. - Collected GPS of Red Mud area B open area using trimble, Area is approx 14,864 ft² (according to GPS)

1522 - Collected RMB-WST-22B @ 10' BGS

1540 - ~~Collected RMB-WST-22C (Foundation)~~ 23

The Red mud @ 22 is sandy, different material than previously sampled. NO Dup collected @ 22, due to low recovery of sandier materials.

1555 - Collected RMB-WST-23 A+B.
B sample collected @ 7.5' ft BGS
36864 = Surface CPM
12338 = Subsurface CPM
Collected area on trimble around 23.
subsurface sample has same consistency as coffee grounds.

1610 - Did not complete sampling @ 23B due to rain and lightning

1650 - Rain slowed, continued to augen to depth for B sample. Combined B sample - 7.5' depth due to partial recovery with previous recovery bucket. Area is approx 3210 ft².

1700 - Collected RMB-WST-23 B+C duplicate @ depth - 1710 hrs.

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1715 - Arrived @ RMB-WST-21
13204 cpm @ RMB-WST-21
NO SAMPLE Collected. Auger refusal @ 2-3" depth, too much cobble in surface.

1740 - Arrive @ RMB area RMB-WST-24 between Area B and settling pond. collected RMB-WST-24A - NO B Sample due to water in the sample @ 2" depth. Sample was collected in the area between RMB and the settling pond.

LATE ENTRY - ~~Duplicate Sample @ RMB-WST-23 was not sent for analysis not needed~~. Sample @ RMB-WST-40 was full Scan, with Organic and Inorganics.

1800 - Move back to command post to package samples and clean equipment, prep for next day.

1900 - Continuing Sample preps and packing.

1930 - Left site for hotel for end of day.

AB to

9/19/11

to A

9/20/11 St. Croix Alumina

0620 - Lease hotel for site in rental jeep

0650 - Arrive @ main gate, acquire badges

0700 - Packing jeep for daily activities. heavy rain with some thunder and lightning are in the area expected to continue all day (Flash flood watch).

0800 - Due to rain and rescheduling, collection of FBS samples has been moved up, begin preps for FBS sampling. No RAD in surface, collect RAD readings using Auger to drill into the piles to collect subsurface samples w/ RAD.

0910 - Drive to FBS area (under Large shed)

0920 - Prepare to collect FBS samples.

0925 - Collected FBS-WST-44 A+B
Surface = 20292 cpm NO B Sample
Subsurface = 30639 cpm Collected.
B sample collected approx 8" depth in the pile. Red mud was mixed with Bauxite/Alumina and was not sampled per EPA Rosoff.
Collected RAD Sample from surface.

0935 - Collected FBS-WST-45 A (NO B) surface - 30329 cpm

No B sample due to Bauxite/Alumina in 14" depth of the pile in the sample area.

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0950 - Collected ~~RMA~~ FBS-WST-46A NO BS sample collected due to other materials (bauxite/Alumina) in the subsurface (depth of approx 8-12") below the pile surface.

Surface reading = 18142 cpm

0955 - Arrive back to command post to drop off samples and data and to package samples for shipping.

LATE ENTRY - Red Mud in the FBS Area appears to be heavily mixed with bauxite, alumina and misc debris. Some sample sites had alumina 6-12" depth below red mud samples. multiple auger holes were advanced around each sample location, with results being similar across the various points.

AB

9/20/11

0655 - Arrive on site @ command post. prepare for sampling activities.

0730 - pack jeep for sampling of BKGnd sediments, red mud area A and also the FBS-WST-43 sample @ large shed

0800 - Drove off site to BG-16 site

0810 - Collected BG-S16 location samples.

Surface = 3531 cpm

Subsurface = 6318 cpm

near the ~~old~~ wastewater treatment plant near the landfill.

Background subsurface @ = 3.5' BGS. Stopped due to auger refusal.

~~0815~~ Collected BG-SS16 (subsurface).

0825 - Drove back to Red mud area A to collect the two additional RAD samples

0850 - On RMA - to collect RMA-WST-R01 + R02.

0900 - Collected RMA-WST-R01

52745 cpm = Surface

RAD Surface only, in flat area.

0915 - Collected RMA-WST-R02

55799 cpm = surface

RAD surface only.

0925 - walk to staging area, breakdown of tent.

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0950 - Drove to FBS area & collect 43.
1000 - Collected FBS-WST-43A ONLY
NO B sample due to caliche @
6-8" depth.
Surface = 16338 cpm.
1025 - Collected RMA-SD-57
surface sediment sample
Surface = 29713 cpm
depth is approx 14" until refusal,
though there is caliche in the
floor bed. No subsurface collected.
1038 - Collected RMA-SD-58
surface sediment sample
Surface = 22327 cpm
depth of red mud is approx. 24-28"
1055 - RMA-SD-54 Collected
surface sample only for sediment
Surface = 20539 cpm
Red mud @ approx 24-30" depth
on stream wall and bed.
1105 - RMA-SD-60 Collected
surface sediment only
Surface = 23416
Red mud @ approx 16-18" depth due to caliche.

9/21/11

1115 - RMA-SD-61 collected
Surface sediment only, heavily
vegetated area on opposite side of
berm from floodplain.
Surface = 12798 cpm
1127 - RMA-SD-62 & 63 collected (Time on
63 is 1130. Collected surface sample only.
with a dup for RAD + Inorganics.
Red mud in floodplain @ approx 24" depth
until a different soil type (Brown sandy
silt) was encountered.
1140 - walk back to the vehicles, decon
and drive back to the command post.
1145 - Drop off samples and assist
w/ data and sample mgmt.
1320 - prep for ADP area measurement
and also depth testing for volumes.
1340 - Drive to ADP area, measuring
RST-2 Trimble - approx 35,742 ft 2
and hand augers for depths -
Six additional auger holes advanced
to refusal @ approx 4.5' depth.
2 holes down to 5' depth to refusal
on intact rock/soil on western most hole.

9/21/11 St. Croix Alumina

LATE ENTRY BY A.D.

SAMPLE SUMMARY FOR 9/20/11

SAMPLE	DATE	TIME
RMA-WST 17A		1400
RMA-WST 17B		1400
RMA-WST 16A		1415
RMA-WST 16B		1415
RMA-WST 15A		1435
RMA-WST 14A		1450
RMA-WST 14B		1450

AD

AD

AD

9/21/11

9/21/11 St. Croix Alumina

LATE ENTRY BY AD

SAMPLE SUMMARY for 9/20/11

SAMPLE ID	DATE	TIME
BG-S07	9/20/11	1650
BG-S08	9/20/11	1700
BG-S09	9/20/11	1710
BG-S10	9/20/11	1715
BG-S11	9/20/11	1720
BG-S12	9/20/11	1725
BG-S13	9/20/11	1730
BG-S14	9/20/11	1740
BG-S15	9/20/11	1745

9/21/11

AD

FIELD LOG BOOK
St. Croix Alumina
Kingfish & St. Croix
U.S.V.I.
RECORDS
RST 2
Injection Solutions

St. Croix Alumina Site
WO.# 20401.131.024.5068
Kingshill, St. Croix, U.S.V.I.

Weston Solutions, Inc.
RST 2
1090 King Georges Post Rd.
Suite 201
Edison, NJ 08837
Ph: (732) 585-4400

RST 2 - 02 - 1232
If lost, please return to:
Weston Solutions, Inc.
1090 King Georges Post Rd.
Suite 201
Edison, NJ 08837.
Ph: (732) 585-4400

9/8/11

The following Weston Solutions personnel mobilized to the St Croix Alumina Site (SCA site) with supplies and equipment:

- Gerry Gilliland - Region V, START III Project leader
- Dan Carlson - Sample Mgmt / SCRIBE
- Derrick Cobb - Soil / Red Mud Sampling
- Anthony Daniels - " " " "
- Alex Byrum - Site Safety Officer
- Michele Lortz - GW/SW/SED Sampling
- Joe Schmidl - GW/SW/SED and Wetland delineation w/ Michele Lortz. [Joe arrived on 9/9/11 due to weather related flight delays] EM 9/11/11

Property owner, St. Croix Renaissance Group (SCRG) has provided their training facility as our command area to be shared with EPA. Facilities include A/C, wireless internet, Mens/Womens restrooms, refrigerator, electric and room for equipment storage, sample management. SCRG also provided a garage and vehicle wash-down

9/8/11

St. Croix Aluminum Site.

The facility has 24-hr security. All visitors must sign in, receive a vehicle pass card and a visitor badge. Possession of a TWIC card or continual escort by a TWIC card-holder is required to be on-site. 9/8/11

9-9-11

0740 - Weston arrives at facility to continue with equipment and supplies mobilization.

0800 - Melissa Jackson, SCRG HR person, conducted the facility orientation and health and safety meeting. Ms Jackson provided site contact information and described procedures for moving + working on the site. Two logbooks and an SCRG 2-way radio were provided for recording entry, exit, and locking of access gates on the site.

0830 Orientation completed. Weston

St. Croix Aluminum Site

9/9/11

0930 Weston members G. Gilliland, J. Schmidl and M. Lortz are escorted by SCRG Alternate Field Safety Officer Alphonsus Dennis to Three (3) interior gates on the site that Weston field sampling teams will need to enter and exit to complete field sampling tasks. The following procedures must be followed regarding the access gates:

1. Radio into the security guard the time you enter and the time you exit a gate.
2. Record the date + time of each entry/exit through a gate and the personnel involved in the log-book provided by SCRG.

1030 J. Schmidl and M. Lortz prepare to conduct the wetland survey along the southern, coastal area of the site and along the shipping/docking channel.

1200 J. Schmidl and M. Lortz depart for wetland survey; J. Schmidl given

1330 D. Carlson + G. Gilliland leave site to purchase field supplies and have lunch. Rest of team taking inventory of equipment received and tracking equipment with FedEx for items/supplies yet to be received.

1400 Received a call from Ildefenso Acosta, EPA, indicating that All EPA personnel ~~did not~~ delayed their flights to St. Croix due to Tropical Storm (TS) Maria. All EPA personnel to arrive on Monday 9/12/11; Mike Ferriola to arrive first around 2:30pm; remainder of team to arrive about 9:30pm. M. Ferriola asked that Weston assist him in transporting EPA equipment from the UPS facility at the ~~site~~ (EK) airport to the SERG facility on Monday afternoon.

1430 Based on a conversation between G. Gilliland (Weston) and OSC's M. Ferriola / D. Rosoff: It is ok to begin SW/SED sampling in

1500 Weston continues to mobilize and organize equipment, supplies and organize work area to be shared with EPA. Continue to track down and resolve "fees" issue with some field supplies "hung up" at UPS facility at the airport. Other field equipment arrived and stored at hotel.

1800 Ael Weston personnel off-site EK MK MT 9/9/11

9/10/11

0800 Weston personnel arrive at the site, (EK, GG, DC AD, ML, JS, DC, AB). Weather - Hot, humid, brief showers; TS Maria expected later today.

0830 A. Byrum conducts brief safety meeting. Mobilize additional equipment and supplies that arrived via FedEx to the hotel last night.

Re-arranged Command Post to follow a

9/10/11

0845 D. Carlson continues to work on and set up SCRIBE database.

0900 G. Gilliland notifies Zak (SRG) primary contact (FSO), that Weston plans to measure pH of red-mud/soil, and water on the site and measure Depth to Water (DTW) and Total Depth (TD) of wells to be sampled. Zak ok with planned activities.

0930 A. Daniels + J. Schmidl proceed to get test samples of red-mud and water for pH testing.

M. Lortz and D. Cobb steam cleaning water level and oil-water interface probe, then go to locate remainder of wells to be sampled, measure DTW and TD of wells.

1000 J. Schmidl and A. Daniels return to test pH of soils, red-mud.

1030 J.S. and A.D. also test pH of puddle/accumulated water at base of Red Mud pile in Area A. with pH paper, red-mud = 10-11

1100 pH of red mud from pile in Area A = 10.1, pH of soil w/ red-mud across access road from pile in Area A = 8.64

1115 Determine nitric acid requirements to preserve red-mud water: 60-ml of 1:1 Nitric Acid reduces pH from 10.19 to 1.5 for 1-Liter of red-mud water.

1130 M. Lortz + D. Cobb go to local hardware store to purchase additional field supplies, on return they continue to well recon (recording data in a seperate logbook).

1145 A. Byrum drives Route to Hospital

1320 A. Daniels + J. Schmidl continue to test pH of red-mud/water. M. Lortz and D. Cobb continue with well recon. Remainder of field staff working on sample Mgmt, SCRIBE, and Safety Details.

1430 pH readings of red-mud ~~and~~ water of other sampling locations on Site (meter-tested)

- Red mud settling pond = 9.71
- Upper Cooling Pond, south end = 8.22
- Lower Cooling Pond, NW corner = 8.17

9/10/11

St. Croix Alumina Site

9/10/11

1500 A. Daniels, D. Carson, J. Schmidl off site for weekend. E. Knyfl and G. Gilliland off-site for lunch.

1530 E. Knyfl and G. Gilliland return to site.

1600 Notes about GW well observations; additional details in GW logbook.

- GM-22: Buried under limestone rubble.
- G-1: Damaged, no inner casing, silted up with only 1-foot of water
- H-1: 6" of measured floating product.
- G-7: Could not locate; try again on Monday.
- GM-13D: Red-mud washout area.

1600 A. Byram, M. Lortz, D. Cobb off site.

1700 E2K., G. Gilliland off-site.

9/10/11

St. Croix Alumina Site

9/12/11

0715 Weston personnel arrive on site, including E. Knyfl, G. Gilliland, A. Byram, D. Cobb, M. Lortz, A. Daniels, D. Carlson, J. Schmidl

A. Byram, Site Safety Officer, holds Safety Meeting, discuss heat stress, loose-unstable footing, hydration, discuss route to hospital, about 0.5 mile north of Sunny Isle Shopping Center. Discuss sample bottle/equipment requirements, etc.

0810 Safety briefing completed. Help field teams organize their sampling equipment for background sample collection and for SW/SED sample collection in the mangroves.

0850 A. Daniels + D. Cobb leave to begin collection of background samples.

0908 M. Lortz + J. Schmidl leave to begin surface water sediment sample collection in the mangroves.

0910 A. Daniels and D. Cobb return to command post to load GPS'd sample locations onto the RST2 Trimble.

0930 A. Daniels + D. Cobb head back out to collect background soil samples.

St. Croix Alumina Site

9/12/11

1100 - A. Daniels + D. Cobb return to command post; raining, so they will take lunch now.

1155 - Mix of sun/clouds/rain and thunder. Thunderstorm approaching site from SW.

315 Measure pH of background soil samples:

- BG-SD2-00: pH = 7.42 @ 24.1°C
- BG-SD1 ~~2~~: pH = 7.80 @ 24.2°C (EK)
- BG-SD2-16: pH = ~~8.07 @ 23.1°C~~ → 7.72 @ 24.1°C (EK)

1330 A. Daniels + D. Cobb head back out to collect background soil samples.
M. Lortz and J. Schmidl head out to continue with surface water / sediment sampling.

1410 A. Daniels / D. Cobb return to command post. They indicate that 0-6" comprises soil and >6" depth they encountered bedrock at a consistent basis.

1430 hr M. Lortz and J. Schmidl return to field to collect surface water and sediment samples.

1435 E. Knypl works on finalizing the

St. Croix Alumina Site

9/12/11

1610 D. Carlson + E. Knypl drive to FedEx with one cooler of soil + water samples to be delivered and analyzed by USEPA Region 2 DESA. pH of all shipped samples was measured ~~via EPA Method~~ (EK) and found to be between 7.02 - 7.80; therefore samples do not meet corrosive nature for Dangerous Goods (DG) shipping via air transport.

1700 hrs (EK) D. Carlson + E. Knypl return from FedEx.

1800 M. Lortz and J. Schmidl return from their surface water and sediment sample collection.

1925 Field team test pH of all collected samples, preserves those that need preservation and wrap up work for the day.

1930 hr A.D., A.B., D.C., J.S., M.L., D.Cobb leave the site.

1945 E. Knypl + G. Gilliland leave the site.

9/12/11

0700 - Weston personnel on Site: D. Carlson, G Gilliland, A. Daniels, M. Lortz, E. Knafla, D. Cobb, A. Byrum and J. Schmidl.
Weather - Cloudy/overcast/humid/ Temp ≈ 80° F.
*Note: At hotel, Weston received 3 boxes of Macro Core sleeves (66x3) and 1 box of MacroCore Soil Catchers.

0745 G. Gilliland, M. Lortz, J. Schmidl drive to locate access and sample locations for sw/sed sampling today.

1030 EPA personnel arrive on Site, Ilde + Nidal first, then Dave Rosoff Chris D'Onofrio, and Mike Ferrola. Mallorie + Alphonsus (SCRG) at the Training Center, to give them orientation to EPA personnel.

1040 Speak with Paul Callahan (Weston RSO for Region 1 EPA) about DG Dec forms for Corrosive liquids. Per Paul, print cans are not needed. Remember

1225 EPA personnel preparing their radiation equipment for rad screening on the red mud pile in Area A.

1235 Receive a call from Cindy White at NAREL; she will call me back with an answer about the 3 lb weight limit per shipment/treatment stated in their soil permit.

1255 EPA personnel having lunch, SW/SED sampling team (A. Daniels, J. Schmidl, M. Lortz) come back with samples. D. Carlson getting lunch for Weston staff.

1315 EK, G. Gilliland, D. Carlson, A. Daniels, M. Lortz have lunch.

1345 EK, GG, D Carlson, AD, ML off lunch.

1420 EK calibrates the Orion Model 730A pH meter. to Buffers of 7.00 and 10.00.

1425 Begin measuring pH of sediment samples ACC-SD01, ACC-SD04, ACC-SD05, ACC-SD06, ACC-SD07, and ACC-SD52.

1447 finish pH measurements; all pH's range

9/13/11

1455 Prepare labels for outside of outer packages for Corrosive Solids UN 3262 and Corrosive Liquids, UN 3266, if needed.

1530 Drive out to Red Mud pile
30-50 counts - Surface area
60-88 counts - gullies

1720 Mud pile Scoping meeting.
- Use Proposed Sample locations
- 3' Wood Stakes or Rebar
- Set up 100' x 100' area around stake → Sample @ highest location
- Then Model to Scan whole pile stake out hot spots that are ID'd but not collected.

* Various discussions regarding how to proceed.

1830 hr EPA personnel off site
Weston personnel AD, ML, JS, AB, D Cobb off site.

1840 hr EC Knuffke, G. Gilliland, D. Carlson off site.

9/13/11

0705 EC K on site; M. Lortz, D. Carlson, A. Byram, D. Cobb, G. Gilliland, A. Daniels, J. Schmidt.

0745 D. Cobb goes to hardware Store to pick up Wood survey stakes / rebar / paint and/or flagging to mark ~~Stop~~ (EK) proposed sampling locations on the red mud pile.

0830 Plan is for E Knuffke & D. Cobb to navigate to proposed sample locations on red-mud pile A and stake locations for Rad-Screening team.

0900 Gather field gear (PPE) and drive out to red mud pile to meet D. Cobb and help locate proposed sample locations on pile with blue Survey flags.

0925 Navigate to ~~first~~ (EK) waste pile Sample Location RMA-WST-09 → all other information is maintained in D. Cobbs Field book.

1000hr Receive a call from Cindy White at NAREL RE: 3-lb weight limit per shipment in accordance with Next soil permit. → (1) since our sample material

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1005 (2) As a precaution we should include the soil permit with our shipping paper as customs may still want to inspect the shipment

(3) The 3-lb weight limit is per Sample, Not per shipment; not a problem for us because a sample container will not exceed the 3-lb. limit.

1115 Navigate to half of the locations on the red mud pile Area A, return to command post for lunch.

1320 On Red Mud pile after lunch break.

1545 Return from mud pile.

1600 Assist with shaking off of sediment samples and packing of sediment samples for delivery to the lab tomorrow.

1723 Finish with sample management tasks for the time being.

1910 Help with sample input of more SW/SED samples that came in at 1830 hrs. Gather Geoprobe and sampling equipment for tomorrow's red mud

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1030 Arrive late on Site; flat tire on vehicle.

RMA-WST-02B

Depth = 3.75'

1135 Collect Red mud sample RMA-WST-02B from 2-4' for Metals Rad parameters.

1200 Crew comes off the red mud pile for lunch.

1225 At training center. break for lunch.

1315 Back at training center.

1420 At red mud pile.

1430 AA RMA-WST-03 to collect sample of red mud at depth.

1451 Collect RMA-WST-04B @ 4 ft.

1500 Collect RMA-WST-12B @ 3-4 ft. for Rad, Metals, PCBs, SVOCs.

1522 At RMA-WST-05 A & B

1615 AA RMA-WST-13 to collect Samples from surface "A" and from depth "B". RMA-WST-13B @ 8' base of Crevasse.

1645 Collect RMA-WST-20B @ 4' for Rad parameters. @ base of crevasse.

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0710 Arrive at site. All of Weston personnel on site.

0755 Mike Ferrola and Nidal Azzam here for EPA, Dave R, Chris D. and I. Acosta notin (meeting w/DPNR this morning).

0830 Arrive at redmud pile. M. Lentz, D. Cobb, A. Daniels, A. Byrum, E. Kryfl for Weston and M. Ferrola + N. Azzam

0845 At RMA-WST-19A+19B. 46973 in crevasse (cpm) 44934 cpm surface "B" location, 5' bgs in crevasse.

0900 Sample RMA-WST-19B

0910 At RMA-WST-09 location. Mike F. reads 50 uR/hr 41708 cpm in surface location "A" at RMA-WST-09A At RMA-WST-09B, crevasse,

0913 777.19 cpm. Mike F. gAM reading of "B" location at RMA-WST-09B Th-232 49.5 uR/hr

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0935 At location RMA-WST-08 41267 cpm at surface location. Radial Screening at RMA-WST-08B A. Daniels & D. Cobb → 57091 cpm at "B" location. Depth = 4.5' bgs

0945 At RMA-WST-07 A+B Surface reading = 42685 cpm "A" Subsurface reading = 67639 cpm "B"

1000 Begin liquid refreshment break

1035 End break. At location RMA-WST-01.

1040 Collect RMA-WST-01B

1045 Collect RMA-WST-01C (dup)

1055 At RMA-WST-10

1100 RMA-WST-10A collected 40531 cpm at surface

1105 RMA-WST-10B collected 64252 cpm at subsurface, crevasse.

1117 At RMA-WST-11B 86584 cpm in crevasse for depth Sample

1120 Collect RMA-WST-11B at

(20)

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1175 Collect duplicate RMA-WST11C at surface.

1176 86584 c/m on subsurface location

1135 Pack up equipment from field + mob back to command for lunch.

1200 Lunch

1315 Logistics meeting to discuss afternoon work

1320 EPA requests half hour to get recorded before continuing field work.

1300 Mob to RMA. Sampling details documented in logbook of S&S member M. Lortz

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9/16/11

0745 Arrive on site

0830 Mob w/ A. Byram, D. Rasoff, C. Donofrio. To complete Rad Screening Only.

0853 Headset to ADP (ER)

Flag ADP-WST-42

0917 Flag ADP-WST-41

Alex Byram GPS'ing locations. We asked that we estimate the area of the ADP, the black surface soil visible on map at locations 41 + 42

0935 Navigate to location in Area B not previously looked at.

0940 Log RMB-WST-29

0950 Walking down along the pond in Area B. Find some red mud.

0955 Reading only 3229 cpm - not high enough to be of concern.

1007 Log and flag RMB-WST-32 just east of UEP.

1025 Locate and log RMB-WST-28.

1030 Locate and log RMB-WST-30.

1040 Walk through the eastern and western 1/4 of the north half

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1725 Looking for well GM-02 in area just west of Caliche pile west of Bauxite storage Bldg.

1234 Locate and flag the following RMB-WST-22 RMB-WST-23

1300 hr - Break for lunch

1400 hr - Back from lunch

1407 Late Entry - Locate and log RMB-WST-40 for full scan analyses. EK

Late Entry (2): Locate and log RMB-WST-21

1500 GBA leaves the site

1600 Weston leaves the site

Late Entry - J. Schmidt taping up first red-marked Non D.G. shipment for the NAREL Lab; to be shipped by FedEx on Monday, 9/19/11. 9/17/11

9/19/11

0650 Arrive at facility - E. Krayer, G. Gilliland, D. Gobb, A. Daniels, M. Lortz, D. Carlson, J. Schmidt, A. Byram.

0720 Work with D. Rosoff / C. D'Onofrio on former Bauxite Stg Area: samples FBS-WST-43 A/B, FBS-WST-44A/B, FBS-WST-45 A/B, and FBS-WST-46 A/B. EK

Weather: Sunny, some clouds, 80°F.

0755 G. Gilliland, D. Rosoff, C. D'Onofrio to sample former Bauxite Stg Area.

0800 - Help D. Carlson pack up sample coolers for FedEx shipment; DG & Non-DG samples.

0900 Receive 30 bags of ice from Hennemann Ice Co.

2400 hr Working with Dean Carlson to re-preserve sample coolers with fresh ice for delivery to FedEx today. Prepare DG Declaration forms for sample shipments to Chemtech Consulting Group + USEPA Region 2 DESA Lab → SAT samples.

1320 D. Rosoff, N. Attaam, M. Ferrola, return to training building. 9/19/11

1305 Break for lunch (EK)

1415 off lunch. Continue to weigh out red mud for pH analyses/testing.

1530 Finish weighing soil for red mud pH analyses and ~~finish~~ Begin labeling sample containers with red mud collected today.

1700 Finish labeling sample containers of red mud collected today from Area RM "B" and from the Ash Disposal Ponds.

1715 Begin reading pH of red mud samples:

1823 The follow red mud samples test positive for DG (pH > 11):

- RMB-WST28B
- RMB-WST29B
- RMB-WST34B
- RMB-WST37A
- RMB-WST37B

1825 Find sample ADP-WST42B and prepare for pH testing.

1915 Complete preparing last few

2000 Finish preparing last red mud samples collected for the day for pH testing. All samples picked up and labeled

Notes:

- 20 red mud waste samples from area A shipped to NAREL, COC # 2-091711-140743-0023, Fed Ex Airbill # 874731024731, Sample were not "DG" samples.

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0715 Arrive at Facility.

0730 Call Cindy White of NAROZ Lab and inform her that our first shipment of 20 red mud waste samples (RMA) should arrive at lab today, including the following:

RMA-WST01A
- 02A
- 03A (COC #
- 04A 2-091711-140743-0023
- 06A FedEx #
- 07A 8747 3102 4731
- 09A
- 09B
- 11A
- 12A
- 14A
- 14B
- 15A
- 16A
- 16B
- 17A
- 17B

0740 Rain, thunder, lightning delaying the start of work.

0745 As of 07:45 AM, samples on previous page are in Birmingham, AL at FedEx's sorting facility.

0800 E. Knytl calibrates the Orion model 230A pH meter to reference pH buffer solutions of 7.00 and 10.00.

0805 Meter returned an auto-calibration error; → retry auto calibration, using fresh 7.00 & 10.00 buffer solutions.

0848 Identify the following additional "D6" red mud samples:

RMB-WST22A
- WST22B
- WST23A
- WST23B
- WST23C

} Collected late 9/19/11

0900 A. Byram, D. Cobb, A. Daniels to accompany N. Azzam & M. Ferriola for former Bauxite Storage Area sample collection.

1035 finish determining pH of red mud samples listed above at time of 0848; only (EP) pH of all these samples are

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1040 Account for TAL Inorganics that are not DG to go to DESA Lab.

1200 E. Knyfe breaks for lunch

1300 E. Knyfe off lunch

1310 E. Knyfe checking red mud shipments to the lab (NAREL).

1345 Screen the coolers being shipped to NAREL, and DESA with a Ludlum Model 19 uR meter. Background reads 3-5 uR/hr; each cooler reads 4-6 uR/hr. Readings are well below the 250 uR/hr action level to qualify for DG for radiation.

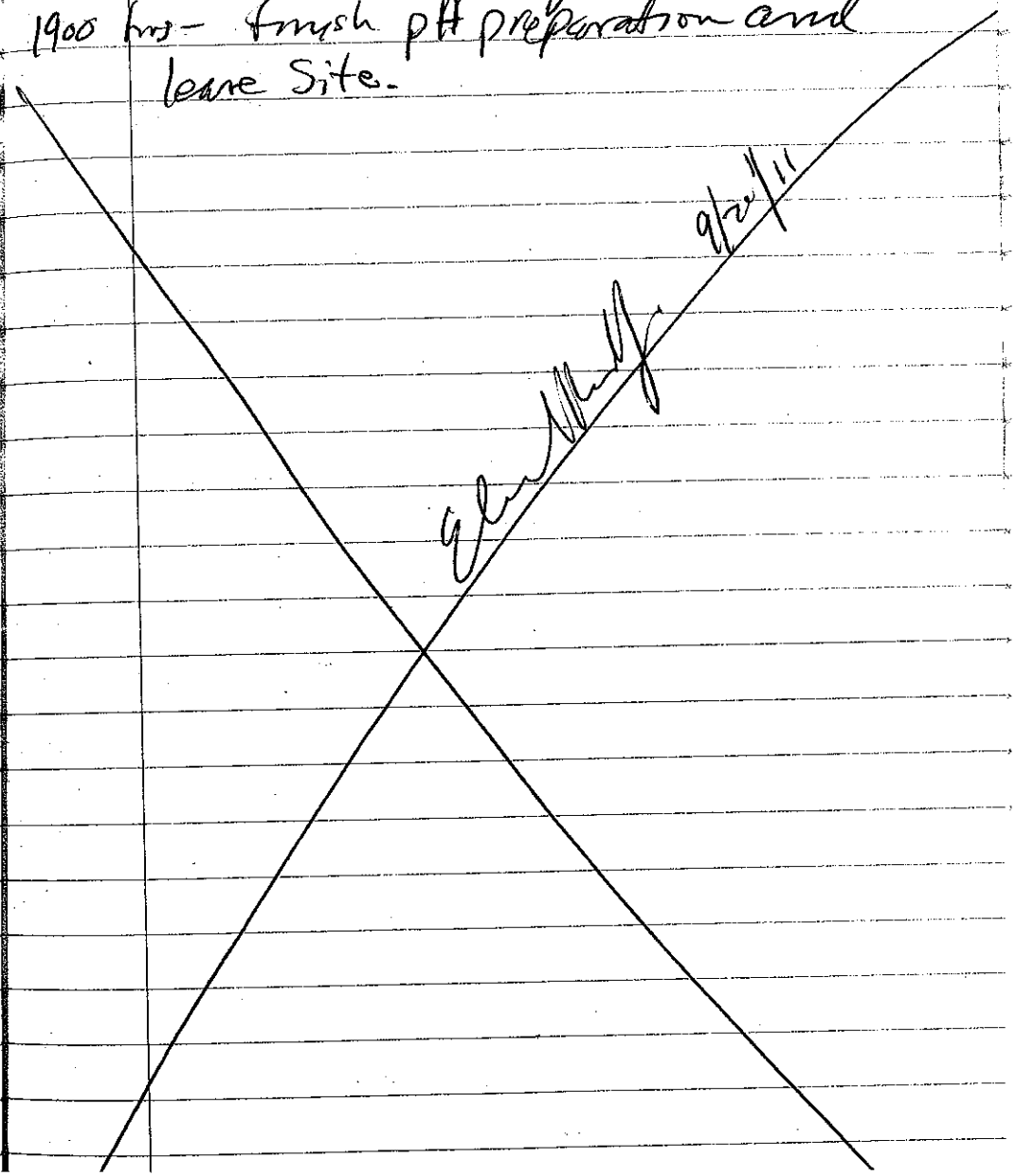
1500 Drive to US Customs at airport to resolve release - issue of 2 packages of calibration gases for the Multi-Rae.

1615 Organize remainder of DG red mud samples and prepare them for preservation on ice (TAL Metals).

1700 Drive FedEx paperwork, DG forms and Commercial Invoices to D. Carlson at FedEx. Return with DG

1745 Return to Site, assist with determining pH of background samples collected late today.

1900 hrs - finish pH preparation and leave Site.



0700 Arrive on Site.
0720 Begin measuring pH of background samples collected late yesterday.
0830 Finish testing pH of background soil samples BG-SØ9, S1Ø, SØ7, S15, S14, S13, SØ8, S11, and S12 → all are not DG for shipping.
0848 Prepare another cooler for red-mud Rad shipping to NAREL, DG and non-DG.
0855 Assign Sample ID's ~~RMA-WSTØ2A~~, ~~RMA-WSTØ1~~ (EL) RMA-WSTRØ1A, RMA-WSTRØ1B, RMA-WSTRØ2A and RMA-WSTRØ2B for two additional red mud samples collected in Area A based on Gamma Screening exposure survey.
0947 Finish packing 1 cooler with DG Rad samples for NAREL; including RMA-WSTØ2B/Ø1C/Ø3B/1ØB/ and 12B → 2 containers each.
0950 Start a 2nd DG Rad red mud cooler for NAREL containing so

1000 Both DG coolers with red mud going to NAREL are properly labeled with Class 8 labels, "Y" (limited qty. label) and label with UN#, Technical Name, and Net. Qty identified.
1005 Begin prepwork for Non-DG Rad cooler to go to NAREL; including UCP-SD35, UCP-SD37, UCP-SD39, RMS-SD45, BG-S01, LCP-SD33, RMA-WST 20B, RMA-WST 13A and 13B, and ADP-SD49.
1030 Prepare samples BG-S1ØA, RMA-WSTRØ1A and RMA-WSTRØ2A for pH testing.
1120 Finish prep for pH testing of samples started at 1030 hrs.
(EL) 1255 Prepare sediment and Former Bauxite storage Area samples for pH testing. Read pH of BG-S1ØA, RMA-WSTRØ1A and RMA-WSTRØ2A; all come back as non-DG (< 11 pH).
1300 Pack up a non-DG Rad cooler of red mud samples for shipment to NAREL.
1325 Drive to FedEx and drop off DG Rad shipment for delivery to NAREL.

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1420 Continue with packing of sample coolers for rad analyses; red-mud, soil/red mud mixture and water for rad analyses.

1700 Preserve all the water samples in Cubitainers to a pH of 2 with 1:1 HNO_3.

1745 Help J. Schmidl put together DG DEC form for shipping DG liquids, corrosive to lab for analyses (SAT parameters).

920 Finished 75% of the packing of field equipment to return to to Edison, NJ (RST2).

930 E. Knytl leaves the Site.

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St. Croix Alumina

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0700 E. Knytl & J. Schmidl arrive on Site.

0715 Weather, Sunny, 80° F, some clouds. Continue with preparation of samples to be shipped out to the labs via Fed Ex, and shipment of field equipment back to RST2 in Edison, NJ.

9/22/11

pH Readings
GW-SW Samples
St Croix Alumina Site - September 2011

Matrix	Samp_No	Sample Date	Sample Time	Depth	pH	Temp (°C)	Inits.
Ground Water	SCA-GW01	9/20/11	1641		7.51	27.48	ML-Log
~~Ground Water~~	~~SCA-GW01F~~	~~SAME AS ABOVE~~					GG
Ground Water	SCA-GW02	9/19/11	1125		7.27	30.07	ML-Log
~~Ground Water~~	~~SCA-GW02F~~						GG
Ground Water	SCA-GW03	9/19/11	1737		6.72	29.26	ML-Log
~~Ground Water~~	~~SCA-GW03F~~	~~SAME AS ABOVE~~					GG
Ground Water	SCA-GW04	9/19/11	1406		7.76	30.67	ML-Log
~~Ground Water~~	~~SCA-GW04F~~	~~SAME AS ABOVE~~					GG
Ground Water	SCA-GW05	9/21/11	0915		9.28	28.99	ML-Log
~~Ground Water~~	~~SCA-GW05F~~			~~SAME AS ABOVE~~			GG
Ground Water	SCA-GW06	9/21/11	1155		12.78	28.82	ML-Log
~~Ground Water~~	~~SCA-GW06F~~			~~SAME AS ABOVE~~			GG
Ground Water	SCA-GW07	9/19/11	1551		7.19	29.22	GG (ML-Log)
~~Ground Water~~	~~SCA-GW07F~~	~~SAME AS ABOVE~~					GG
Ground Water	SCA-GW08	9/20/11	1042		7.40	28.13	ML-Log
~~Ground Water~~	~~SCA-GW08F~~			~~SAME AS ABOVE~~			GG
Ground Water	SCA-GW09	9/20/11	1230		7.55	28.08	ML-Log
~~Ground Water~~	~~SCA-GW09F~~			~~SAME AS ABOVE~~			GG
Ground Water	SCA-GW10	9/20/11	0900		7.98	28.13	ML-Log
~~Ground Water~~	~~SCA-GW10F~~			~~SAME AS ABOVE~~			GG
Ground Water	SCA-GW11	9/20/11	0905		7.98	28.13	ML-Log
~~Ground Water~~	~~SCA-GW11F~~			~~SAME AS ABOVE~~			GG
Surface Water	ACC-SW01	9/13/11	0952	-	9.31	0950	JS
Surface Water	~~ACC-SW02~~	AREA INACCESSIBLE					GG
Surface Water	~~ACC-SW03~~	— SAMPLES NOT COLLECTED					GG
Surface Water	ACC-SW04	9/13/11	1012	-	8.05		JS
Surface Water	ACC-SW05	9/13/11	1107	-	7.55		JS
Surface Water	ACC-SW06	9/13/11	1135	-	~~8.49~~	8.05	JS
Surface Water	ACC-SW07	9/13/11	1147	-	8.44		JS
Surface Water	MAN-SW08	9/12/11	1615	-	8.06		JS
Surface Water	MAN-SW09	9/12/11	1045	-	7.75		JS
Surface Water	MAN-SW10	9/12/11	1120	-	7.79		JS
Surface Water	MAN-SW11	9/12/11	1145	-	8.30		JS
Surface Water	MAN-SW12	9/12/11	1412	-	~~10.25~~	8.13	JS
Surface Water	MAN-SW13	9/12/11	1530	-	8.52		JS
Surface Water	MAN-SW14	9/12/11	1715	-	8.67		JS
Surface Water	MAN-SW15	9/12/11	1700	-	9.06		JS
Surface Water	MAN-SW16	9/12/11	1430	-	~~9.70~~	8.05	JS
Surface Water	MAN-SW17	9/14/11	1022	-	8.65		JS
Surface Water	~~MAN-SW18~~	SAMPLE NOT COLLECTED - WAM ERUPTION					GG
Surface Water	MAN-SW19	9/15/11	1012	-	7.90	29.50	DG
Surface Water	MAN-SW20	9/14/11	1130	-	7.85		J

pH Readings
GW-SW Samples
St Croix Alumina Site - September 2011

Matrix	Samp_No	Sample Date	Sample Time	Depth	pH	Temp (°C)	Inits.
Surface Water	MAN-SW21	9/14/11	1230	-	7.62		GG
Surface Water	WES-SW22	9/14/11	1632	-	8.05		AB
Surface Water	WES-SW23	9/14/11	1633	-	8.05		AB
Surface Water	WES-SW24	9/14/11	1722	-	8.10		AB
Surface Water	~~WES-SW25~~	NOT COLLECTED - NO WATER AT LOCATION					
Surface Water	LCP-SW26	9/14/11	1019	-	8.18	30.8°C	ML
Surface Water	LCP-SW27	9/14/11	0957	-	8.50	37.4°C	ML
Surface Water	LCP-SW28	9/14/11	1035	-	8.10	29.8°C	ML
Surface Water	LCP-SW29	9/14/11	1051	-	8.75	35.0°C	ML
Surface Water	LCP-SW30	9/14/11	1133	-	10.16	36.0°C	ML
Surface Water	LCP-SW31	9/14/11	1044	-	8.85		GG
Surface Water	LCP-SW32	9/14/11	1115	-	8.05		GG
Surface Water	LCP-SW33	9/14/11	1200	-	8.05		GG
Surface Water	UCP-SW34	9/14/11	1620	-	8.18		JS
Surface Water	UCP-SW35	9/14/11	1700	-	8.17		AB
Surface Water	UCP-SW36	9/15/11	1602	-	8.65		
Surface Water	UCP-SW37	9/14/11	1738	-	8.79		AB
Surface Water	UCP-SW38	9/15/11	1734	-	8.40	30.87	DC
Surface Water	UCP-SW39	9/14/11	1720	-	8.18	31.8	DC
Surface Water	UCP-SW40	9/14/11	1740	-	8.27	30.3	DC
Surface Water	UCP-SW41	9/14/11	1805	-	9.88	31.0	DC
Surface Water	RMS-SW42	9/15/11	0901	-	10.10	29.35	DC
Surface Water	RMS-SW43(DUP)	9/15/11	0902	-	10.10	29.35	DC
Surface Water	~~RMS-SW44~~	NOT COLLECTED → WAM DECISION					GG
Surface Water	RMS-SW45	9/14/11	1817	-	9.85	30.1	DC
Surface Water	RMS-SW46	9/15/11	0825	-	9.53	27.37°C	DC
Surface Water	~~RMS-SW47~~	NO WATER AT THIS LOCATION					
Surface Water	ADP-SW48	9/14/11	1218	-	9.61	31.0°C	ML
Surface Water	ADP-SW49	9/14/11	1205	-	9.65	30.6°	ML
Surface Water	ADP-SW50	9/14/11	1248	-	9.61	32.6°	ML
Surface Water	ADP-SW51	9/14/11	1318	-	9.57	37.9°	ML
Surface Water	ACC-SW52	9/13/11	1212	-	8.08		
Surface Water	BG-SW53	9/13/11	1427	-	6.98	29.6°	JS
Surface Water	BG-SW54	9/13/11	1412	-	7.54	30.0°	JS
Surface Water	BG-SW55	9/13/11	1447	-	7.89	28.9	JS
Surface Water	BG-SW56	9/13/11	1515	-	7.54	28.7	JS
SW	RMA-SW-57	9/20/11	1315	-	10.55	26.2	AB

pH Readings
Sediment Samples
St Croix Alumina Site - September 2007 11

Matrix	Samp_No	Sample Date	Sample Time	Depth	pH	Temp (°C)	pH Date	pH Time	Inits.
Sediment	ACC-SD01	9/13/11	0957	0"	7.71	24.8	9/13/11	1425	EK
Sediment	~~ACC-SD02~~	NOT COLLECTED - LOCATION INACCESSIBLE							BG
Sediment	~~ACC-SD03~~								
Sediment	ACC-SD04	9/13/11	1020	0"	8.02	25.1	9/13/11	1430	EK
Sediment	ACC-SD05	9/13/11	1110	0"	7.21	25.6	9/13/11	1433	EK
Sediment	ACC-SD06	9/13/11	1140	0"	8.08	25.0	9/13/11	1439	EK
Sediment	ACC-SD07	9/13/11	1150	0"	8.55	25.0	9/13/11	1443	EK
Sediment	MAN-SD08	9/12/11	1620	0"	8.64	24.7	9/12/11	1909	AB
Sediment	MAN-SD09	9/12/11	1047	0"	7.65	24.4	9/12/11	1635	DC
Sediment	MAN-SD10	9/12/11	1125	0"	7.76	24.5	9/12/11	1637	DC
Sediment	MAN-SD11	9/12/11	1147	0"	7.31	24.4	9/12/11	1640	DC
Sediment	MAN-SD12	9/12/11	1415	0"	8.65	25.0	9/12/11	1907	AB
Sediment	MAN-SD13	9/12/11	1533	0"	7.76	24.7	9/12/11	1911	AB
Sediment	MAN-SD14	9/12/11	1520	0"	7.63	24.6	9/12/11	1913	AB
Sediment	MAN-SD15	9/12/11	1505	0"	7.83	24.7	9/12/11	1915	AB
Sediment	MAN-SD16	9/12/11	1435	0"	8.38	24.7	9/12/11	1918	AB
Sediment	MAN-SD17	9/14/11	1025	0	7.60	25.9	9/14/11	1913	AB
Sediment	~~MAN-SD18~~	NOT COLLECTED/LOCATION ELIMINATED BY ~~DSG~~/WAM							
Sediment	MAN-SD19	9/15/11	1016	0"	7.69	25.3	9/15/11	17:10	JS
Sediment	MAN-SD20	9/14/11	1140	0	7.64	25.7	9/14/11	1915	AB
Sediment	MAN-SD21	9/14/11	1235	0	7.65	25.9	9/14/11	1909	AB
Sediment	WES-SD22	9/14/11	1637	0	7.70	25.4	9/15/11	17:15	JS
Sediment	WES-SD23	9/14/11	1637 (80)	0	7.96	25.5	9/15/11	17:14	JS
Sediment	WES-SD24	9/14/11	1727	0	7.68	25.5	9/15/11	17:16	JS
Sediment	WES-SD25	9/15/11	1657	0	8.38	22.7	9/16/11	09:17	JS
Sediment	LCP-SD26	9/14/11	1021	0"	8.09	25.6	9/14/11	1931	AB
Sediment	LCP-SD27	9/14/11	1000	0"	7.30	25.4	9/14/11	1923	AB
Sediment	LCP-SD28	9/14/11	1037	0"	8.31	25.6	9/14/11	1933	AB
Sediment	LCP-SD29	9/14/11	1054	0"	7.88	25.5	9/14/11	1935	AB
Sediment	LCP-SD30	9/14/11	1136	0"	8.58	25.7	9/14/11	1937	AB
Sediment	LCP-SD31	9/14/11	1050	0	7.82	25.4	9/14/11	1918	AB
Sediment	LCP-SD32	9/14/11	1120	0	7.38	25.8	9/14/11	1916	AB
Sediment	LCP-SD33	9/14/11	1205	0	7.89	25.7	9/14/11	1911	AB
Sediment	UCP-SD34	9/14/11	1625	0	8.01	25.4	9/15/11	17:16	JS
Sediment	UCP-SD35	9/14/11	1705	0	7.69	25.6	9/15/11	17:18	JS
Sediment	UCP-SD36	9/15/11	1605	0	8.23	23.0	9/16/11	09:19	JS
Sediment	UCP-SD37	9/14/11	1743	0	7.77	25.4	9/15/11	17:12	JS
Sediment	UCP-SD38	9/15/11	1736	0	7.97	22.9	9/16/11	09:20	JS
Sediment	UCP-SD39	9/14/11	1725	0	7.99	25.4	9/15/11	17:20	JS
Sediment	UCP-SD40	9/14/11	1745	0	8.27	25.1	9/15/11	17:21	JS
Sediment	UCP-SD41	9/14/11	1810	0	10.20	25.4	9/15/11	17:22	JS
Sediment	RMS-SD42	9/15/11	0907	0	10.48	25.0	9/15/11	17:23	

pH Readings
Sediment Samples
St Croix Alumina Site - September 2007 11

Matrix	Samp_No	Sample Date	Sample Time	Depth	pH	Temp (°C)	pH Date	pH Time	Inits.
Sediment	RMS-SD43	9/15/11	0908	0	10.40	25.1	9/15/11	17:25	JS
Sediment	~~RMS-SD44~~	SAMPLE NOT	COLLECTED -	WAM/OSC	DECISION				
Sediment	RMS-SD45	9/14/11	1820	0	10.15	25.4	9/15/11	17:27	JS
Sediment	RMS-SD46	9/15/11	0828	0	9.68	25.1	9/15/11	17:28	JS
Sediment	RMS-SD47	9/15/11	0855	0	10.20	25.	9/15/11	17:29	JS
Sediment	ADP-SD48	9/14/11	1220	0"	8.99	25.2	9/14/11	1925	AB
Sediment	ADP-SD49	9/14/11	1207	0"	9.21	25.4	9/14/11	1928	AB
Sediment	ADP-SD50	9/14/11	1251	0"	9.50	25.5	9/14/11	1928	AB
Sediment	ADP-SD51	9/14/11	1320	0"	9.07	25.4	9/14/11	1926	AB
Sediment	ACC-SD52	9/13/11	1215	0"	8.54	25.1	9/13/11	1447	EK
Sediment	BG-SD53	9/13/11	1425	0"	7.56	25.3	9/13/11	1740	JS
Sediment	BG-SD54	9/13/11	1415	0"	7.86	25.7	9/13/11	1742	JS
Sediment	BG-SD55	9/13/11	1453	0"	8.12	25.6	9/13/11	1744	JS
Sediment	BG-SD56	9/13/11	1518	0"	8.20	25.7	9/13/11	1746	JS

Count = 52

BG-S16	9/21/11	0810		7.81	25.4	9/21/11	1232	EK
RMAWSTR02	9/21/11	0915	0"	10.53	25.5	9/21/11	1236	EK
RMAWSTR01	9/21/11	0900	0"	10.09	25.6	9/21/11	12:39	EK
RMA-SD62	9/21/11	~~1320~~ 1320	0"	9.84	25.9	9/21/11	13:35	EK
FBS-WST43A	9/21/11	1000	0"	9.02	25.7	9/21/11	13:37	EK
RMA-SD61	9/21/11	1115	0"	7.52	25.9	9/21/11	13:40	EK
RMA-SD59	9/21/11	1055	0"	9.86	25.7	9/21/11	13:43	EK
RMA-SD63	9/21/11	1130	0"	9.98	25.7	9/21/11	13:46	EK
RMA-SD58	9/21/11	1038	0"	10.48	25.9	9/21/11	13:49	EK
RMA-SD60	9/21/11	1105	0"	9.85	25.8	9/21/11	13:53	EK
RMA-SD57	9/21/11	1025	0"	10.48	25.8	9/21/11	13:55	EK

pH Readings
Soil-Waste Samples
St Croix Alumina Site - September 2007 11

Matrix	Samp_No	Sample Date	Sample Time	Depth	pH	Temp (°C)	pH Date	pH Time	Inits.
Soil	~~BG-S01~~ BG-S02	9/12/11	1035	0"	7.42	24.1	9/12/11	1315	EK
Soil	~~BG-S02~~ BG-S04	9/12/11	1000	0"	7.80	24.2	9/12/11	1315	EK
Soil	BG-S03	9/12/11	1300	0"	7.03	24.2	9/12/11	~~1430~~	DC
Soil	BG-S04	9/12/11	1347	0"	7.50	24.8	9/12/11	~~1435~~	DC
Soil	BG-S05	9/12/11	1330	0"	7.50	24.9	9/12/11	1540	DC
Soil	BG-S06	9/12/11	1335	0"	DUPLICATE BG-S05				DC
Soil	BG-SS01	NOT SAMPLED - REFUSAL							DC
Soil	BG-SS02	9/12/11	1050	16"	PH NOT MEASURED				GG
Soil	BG-SS03	NOT SAMPLED - REFUSAL							DC
Soil	BG-SS04	NOT SAMPLED - REFUSAL							DC
Soil	BG-SS05	NOT SAMPLED - REFUSAL							DC
Waste	RMA-WST01A	9/16/11	10:40	0"	9.45	24.5	9/16/11	14:16	JS
Waste	RMA-WST01B	9/16/11	10:40	4'	11.11	24.5	9/16/11	14:17	JS
Waste	RMA-WST01C	9/16/11	10:45	4'	11.14	24.2	9/16/11	14:18	JS
Waste	RMA-WST02A	9/15/11	0910	0"	10.66	25.4	9/15/11	17:30	JS
Waste	RMA-WST02B	9/15/11	1135	2-4'	11.88	25.4	9/15/11	17:31	JS
Waste	RMA-WST03A	9/15/11	1030	0"	10.91	25.5	9/15/11	17:32	JS
Waste	RMA-WST03B	9/15/11	14:30	4.5'	12.47	22.8	9/16/11	09:35	JS
Waste	RMA-WST04A	9/15/11	1055	0"	10.57	25.4	9/15/11	17:343	JS
Waste	RMA-WST04B	9/15/11	14:51	4'	12.52	22.8	9/16/11	09:25	JS
Waste	RMA-WST05A	9/15/11	15:30	0"	11.25	22.7	9/16/11	09:33	JS
Waste	RMA-WST05B	9/15/11	15:22	3-4'	12.33	22.9	9/16/11	09:30	JS
Waste	RMA-WST06A	9/15/11	15:45	0"	10.87	22.6	9/16/11	09:22	JS
Waste	RMA-WST06B	9/15/11	15:45	3-4'	12.01	22.8	9/16/11	09:23	JS
Waste	RMA-WST07A	9/16/11	09:50	0"	10.82	24.3	9/16/11	14:19	JS
Waste	RMA-WST07B	9/16/11	09:50	8'	11.27	24.4	9/16/11	14:20	JS
Waste	RMA-WST08A	9/16/11	09:25	0'	11.10	24.5	9/16/11	14:21	JS
Waste	RMA-WST08B	9/16/11	09:35	4.5'	12.34	24.5	9/16/11	14:22	JS
Waste	RMA-WST09A	9/16/11	09:15	0"	10.71	24.4	9/16/11	14:23	JS
Waste	RMA-WST09B	9/16/11	09:15	7'	10.91	24.3	9/16/11	14:24	JS
Waste	RMA-WST10A	9/16/11	11:00	0"	12.05	24.3	9/16/11	14:27	JS
Waste	RMA-WST10B	9/16/11	11:05	5-6'	11.65	24.4	9/16/11	14:28	JS
Waste	RMA-WST11A	9/16/11	11:20	0"	10.75	24.3	9/16/11	14:29	JS
Waste	RMA-WST11B	9/16/11	11:20	8'	11.77	24.4	9/16/11	14:30	JS
Waste	RMA-WST11C	9/16/11	11:25	0"	11.05	24.	9/16/11	14:31	JS
Waste	RMA-WST12A	9/15/11	1120	0"	10.99	25.4	9/15/11	17:34	JS
Waste	RMA-WST12B	9/15/11	1500	3-4'	11.55	22.7	9/16/11	09:32	JS
Waste	RMA-WST13A	9/15/11	16:15	0"	10.88	22.8	9/16/11	09:28	JS
Waste	RMA-WST13B	9/15/11	16:15		10.58	22.8	9/16/11	09:29	JS
Waste	RMA-WST14A	9/16/11	14:50	0"	10.33	22.6	9/17/11	09:01	JS
Waste	RMA-WST14B	9/16/11	14:50	3.5'	10.67	22.8	9/17/11	09:02	JS
Waste	RMA-WST15A	9/16/11	14:35	0"	10.23	22.8	9/17/11	09:03	JS
Soil	~~BG-SS02~~-16 = SS02	9/12/11		16"	7.72	24.1	9/12/11	1315	EK

pH Readings
Soil-Waste Samples
St Croix Alumina Site - September 2011 (2007)

Matrix	Samp_No	Sample Date	Sample Time	Depth	pH	Temp (°C)	pH Date	pH Time	Inits.
Waste	RMA-WST15B	NOT COLLECTED - FIELD DECISION							
Waste	RMA-WST16A	9/16/11	14:15	0"	10.61	22.9	9/17/11	09:04	JS
Waste	RMA-WST16B	9/16/11	14:15	7.5'	10.65	22.9	9/17/11	09:05	JS
Waste	RMA-WST17A	9/16/11	14:00	0"	10.74	22.9	9/17/11	09:06	JS
Waste	RMA-WST17B	9/16/11	14:00	3'	10.57	22.9	9/17/11	09:08	JS
Waste	RMA-WST18A	9/15/11	17:05	0"	10.91	22.9	9/16/11	09:37	JS
Waste	RMA-WST18B	9/15/11	17:00		11.44	22.9	9/16/11	09:38	JS
Waste	RMA-WST19A	9/16/11	09:00	0"	10.78	24.2	9/16/11	14:32	JS
Waste	RMA-WST19B	9/16/11	09:00	5'	12.40	24.2	9/16/11	~~14~~:33	JS
Waste	RMA-WST20A	9/15/11	16:35	0"	10.80	22.7	9/16/11	~~09~~:36	JS
Waste	RMA-WST20B	9/15/11	16:40		10.12	23.1	9/16/11	09:40	JS
Waste	~~RMB-WST21A~~	NOT SAMPLED - Refusal 2"-3" depth							
Waste	~~RMB-WST21B~~								
Waste	~~RMB-WST21C~~								
Waste	RMB-WST22A	9/19/11	1520	0"	11.02	22.2	9/20/11	0819	EK
Waste	RMB-WST22B	9/19/11	1522	10'	11.91	22.2	9/20/11	0822	EK
Waste	RMB-WST23A	9/19/11	1555	0"	11.05	22.3	9/20/11	0825	EK
Waste	RMB-WST23B	9/19/11	1700	7.5'	12.49	22.5	9/20/11	0830	EK
Waste	RMB-WST24A	9/19/11	1740	0"	10.30	22.7	9/20/11	0834	EK
Waste	~~RMB-WST24B~~	NOT SAMPLED - water in sample at 2" depth							
Waste	~~RMB-WST25A~~	~~NOT SAMPLED - WAM/OSC DECISION~~							~~GG~~
Waste	~~RMB-WST25B~~								
Waste	~~RMB-WST26A~~	~~NOT SAMPLED - WAM/OSC DECISION~~							~~GG~~
Waste	~~RMB-WST26B~~								
Waste	~~RMB-WST27A~~	~~NOT SAMPLED - WAM/OSC DECISION~~							~~GG~~
Waste	~~RMB-WST27B~~								
Waste	RMB-WST28A	9/19/11	1230	0"	10.57	24.9	9/19/11	1821	EK
Waste	RMB-WST28B	9/19/11	1230	3'-4'	11.70	24.8	9/19/11	1802	EK
Waste	RMB-WST29A	9/19/11	1135	0"	10.54	24.7	9/19/11	1814	EK
Waste	RMB-WST29B	9/19/11	1135	3'-3.5'	11.13	24.8	9/19/11	1805	EK
Waste	RMB-WST30A	9/19/11	1210	0"-3"	10.69	24.8	9/19/11	1810	EK
Waste	RMB-WST30B	9/19/11	1210	3'-4'	10.62	25.1	9/19/11	1758	EK
~~Waste~~	~~RMB-WST31A~~	NOT SAMPLED - WAM/OSC DECISION (VEGETATED)							GG
~~Waste~~	~~RMB-WST31B~~								
~~Waste~~	~~RMB-WST31C~~								
Waste	RMB-WST32A	9/19/11	1245	0"	9.14	24.9	9/19/11	1817	EK
Waste	RMB-WST32B		~~1245~~	NO SAMPLE - Refusal @ caliche					GG
~~Waste~~	~~RMB-WST33A~~	~~NOT SAMPLED - WAM/OSC DECISION~~							~~GG~~
~~Waste~~	~~RMB-WST33B~~								
Waste	RMB-WST34A	9/19/11	0935	0	10.91	25	9/19/11	1717	EK
Waste	RMB-WST34B	9/19/11	0935	3.5'-4'	12.52	25.0	9/19/11	1751	EK
~~Waste~~	~~RMB-WST35A~~	NOT SAMPLED - WAM/OSC DECISION							GG
R1 Waste	RMB-WST23C	9/19/11	1710	7.5'	~~12.49~~ 12.44	~~22.5~~ 22.9	9/20/11	0830	EK

2 (CK) (EK)

pH Readings
Soil-Waste Samples
St Croix Alumina Site - September 2011

Matrix	Samp_No	Sample Date	Sample Time	Depth	pH	Temp (°C)	pH Date	pH Time	Inits.
~~Waste~~	~~RMB-WST35B~~	NOT SAMPLED – WAM/OSC DECISION							GG
Waste	RMB-WST36A	9/19/11	0920	0"	8.69	25.4	9/19/11	1729	EK
Waste	RMB-WST36B	NO SAMPLE – REFUSAL @ CALICHE							GG
Waste	RMB-WST37A	9/19/11	0810	0'	12.35	24.9	9/19/11	1724	EK
Waste	RMB-WST37B	9/19/11	0810	7'-8'	12.59	25.1	9/19/11	1748	EK
Waste	RMB-WST38A	9/19/11	0835	0"	10.09	25.1	9/19/11	1735	EK
Waste	RMB-WST38B	NO SAMPLE – WATER @ 4-6" DEPTH							GG
Waste	RMB-WST39A	9/19/11	0800	0"	10.35	25.1	9/19/11	17:21	EK
Waste	RMB-WST39B	9/19/11	0800	3'	9.89	25.2	9/19/11	17:33	EK
Waste	RMB-WST40A	9/19/11	1200	0"	8.06	24.6	9/19/11	1754	EK
Waste	RMB-WST40B	~~9/19/11~~ NO SAMPLE – REFUSAL CALICHE @ 2'							GG
Waste	ADP-WST41A	9/19/11	1015	0"	10.17	25.0	9/19/11	17:43	EK
Waste	ADP-WST41B	9/19/11	1015	3'-4'	6.99	25.4	9/19/11	17:40	EK] DUP
Waste	ADP-WST41C	9/19/11	1020	3'-4'	6.83	25.5	9/19/11	17:38	EK
MS Waste	ADP-WST42A	9/19/11	1035	0"	9.83	25.2	9/19/11	17:45	EK ORGS
Waste	ADP-WST42B	9/19/11	1035	3'-4'	8.27	24.6	9/19/11	1930	EK
Waste	FBS-WST43A	9/21/11	1000	0"	9.02	25.7			
Waste	~~FBS-WST43B~~	NOT COLLECTED							GG
Waste	FBS-WST44A	9/20/11	0925	–	10.50	24.0	9/20/11	1125	DC
Waste	~~FBS-WST44B~~	NOT COLLECTED							GG
Waste	FBS-WST45A	9/20/11	0935	–	10.93	23.6	9/20/11	1130	DC
Waste	~~FBS-WST45B~~	NOT COLLECTED							GG
Waste	FBS-WST46A	9/20/11	0950	–	10.29	23.7	9/20/11	1130	DC
Waste	~~FBS-WST46B~~	NOT COLLECTED							GG
Waste	FBS-WST47A								
Waste	FBS-WST47B								
Waste	FBS-WST48A								
Waste	FBS-WST48B								
Waste	FBS-WST49A								
Waste	FBS-WST49B								
Waste	FBS-WST49C								
Waste	FBS-WST50A								
Waste	FBS-WST50B								

SW	RMAWST12		10.43	25.4	9/17/11	08:58	JS
Soil	BG-S15	9/20/11	7.19	23.5	9/21/11	07:57	EK
Soil	BG-S07	9/20/11	6.96	23.5	9/21/11	07:59	EK
Soil	BG-S10	9/20/11	7.13	23.7	9/21/11	0802	EK
Soil	BG-S09	9/20/11	7.03	23.6	9/21/11	0805	EK
Soil	BG-S11	9/20/11	7.26	23.6	9/21/11	0807	EK
Soil	BG-S13	9/20/11	7.29	23.7	9/21/11	084	EK
Soil	BG-S12	9/20/11	7.20	23.8	9/21/11	0814	EK
Soil	BG-S14	9/20/11	7.29	23.7	9/21/11	0815	EK
Soil	BG-S08	9/20/11	7.27	23.7	9/21/11	0818	EK

Photo Documentation
St. Croix Alumina - On-site Reconnaissance
June 1, 2011



Photo No. 1455-06-01-01: Erosion channels on Red Mud Disposal Area A south side.



Photo No. 1455-06-01-02: Erosion channels on Red Mud Disposal Area A south side.

Photo Documentation
St. Croix Alumina - On-site Reconnaissance
June 1, 2011



Photo No. 1455-06-01-03: Erosion channels top of Red Mud Disposal Area A.

Photo Documentation
St. Croix Alumina - On-site Reconnaissance
June 2, 2011



Photo No. 1455-06-02-01: Exposed portion of Red Mud Disposal Area B, looking west.



Photo No. 1455-06-02-02: Drainage ditch flowing from Ash Disposal Pond to exposed portion of Red Mud Disposal Area B, looking north.

Photo Documentation
St. Croix Alumina - On-site Reconnaissance
June 2, 2011



Photo No. 1455-06-02-03: Ash Disposal Pond discharge to drainage ditch, looking north.



Photo No. 1455-06-02-04: Black and gray soil in Ash Disposal Area, looking west.

Photo Documentation
St. Croix Alumina - On-site Reconnaissance
June 2, 2011



Photo No. 1455-06-02-05: Black staining along runoff channel, Ash Disposal Area, looking west.



Photo No. 1455-06-02-06: Blue crab at TPDES outfall to Alucroix channel.

Photo Documentation
St. Croix Alumina - On-site Reconnaissance
June 2, 2011



Photo No. 1455-06-02-07: TPDES outfall and outfall apparatus, looking north along Lower Cooling Pond.



Photo No. 1455-06-02-08: TPDES discharge to Alucroix channel, looking east.



Photo No. 1455-06-02-09: Alucroix channel, looking north from southern end.



Photo No. 1455-06-02-10: Mouth of Alucroix Channel, looking south-southeast.

Photo Documentation
St. Croix Alumina - On-site Reconnaissance
June 2, 2011



Photo No. 1455-06-02-11: Mangrove lagoon sampling access, looking south from access road.



Photo No. 1455-06-02-12: Outflow pipe from Lower Cooling Pond to Mangrove Lagoon, looking south.

Photo Documentation
St. Croix Alumina - On-site Reconnaissance
June 2, 2011



Photo no. 1455-06-02-13: Mangrove lagoon beyond outfall pipe, looking south.



Photo No. 1455-06-02-14: Stressed vegetation in mangrove lagoon, looking south.



Photo No. 1455-06-02-15: Upper Cooling Pond, looking north from southeast corner.



Photo No. 1455-06-02-16: Upper Cooling Pond, looking north with Red Mud Disposal Area A in background.



Photo No. 1455-06-02-17: Looking north across Lower Cooling Pond.



Photo No. 1455-06-02-18: Piles of red mud in Former Bauxite Storage Shed, looking south.

Photo Documentation
St. Croix Alumina - On-site Reconnaissance
June 2, 2011



Photo No. 1455-06-02-19: Looking southeast across storage shed from northwest corner.



Photo no. 1455-06-02-20: Former red mud processing/transfer equipment, west of the storage shed, looking west.



Photo No. 1455-06-02-21: Red Mud Settling Pond, looking southwest toward Upper Cooling Pond.



Photo No. 1455-06-02-22: Red Mud Disposal Area A, looking north from red mud transfer area.

Photo Documentation
St. Croix Alumina - On-site Reconnaissance
June 2, 2011



Photo no. 1455-06-02-23: Top of Red Mud Disposal Area A.



Photo No. 1455-06-02-24: Looking north from top of Red Mud Disposal Area A, residential areas (Bethlehem Village and Profit Hills) in the background.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Background Location



Borehole at background location BG-S04. Limestone refusal at approximately 8 inches.



Background sample location BG-S16, looking southeast at wastewater treatment plant and landfill.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Background Locations



Collection of subsurface background sample BG-S16A, looking west.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A



View across Upper Cooling Pond toward Red Mud Disposal Area A, looking north.



View from top of Red Mud Disposal Area A; looking south across Upper Cooling Pond toward the Caribbean Sea.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A



Surface on top of Red Mud Disposal Area A with scattered industrial debris, looking south.



Eroding surface at top of Red Mud Disposal Area A, looking northeast.

Photo Documentation
St. Croix Alumina – Sampling Event
August 12-21, 2011
Red Mud Disposal Area A



Collection of surface waste sample RMA-WST12A from west edge of ponded surface water on top of Red Mud Disposal Area A.



Sampling team setting up to collect waste samples at location RMA-WST06; looking northeast.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A



Waste sample location RMA-WST13 in Red Mud Disposal Area A, looking northwest.

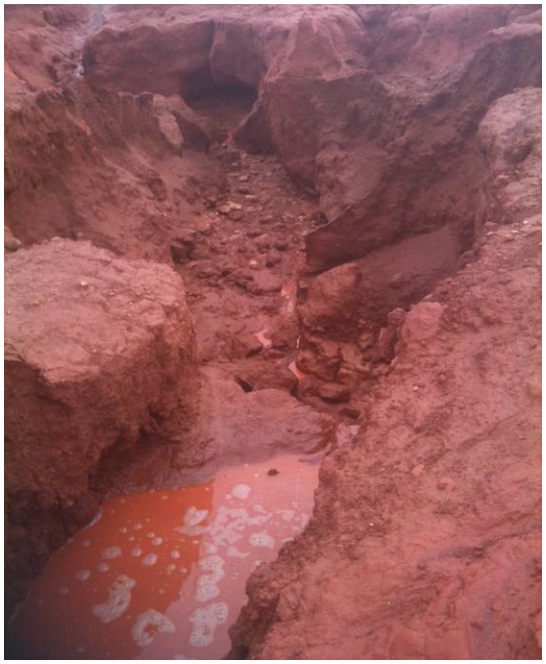


Ponded surface water on top of Red Mud Disposal Area A; looking south.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A



Surface water runoff pathway along top of Red Mud Disposal Area A, looking west.

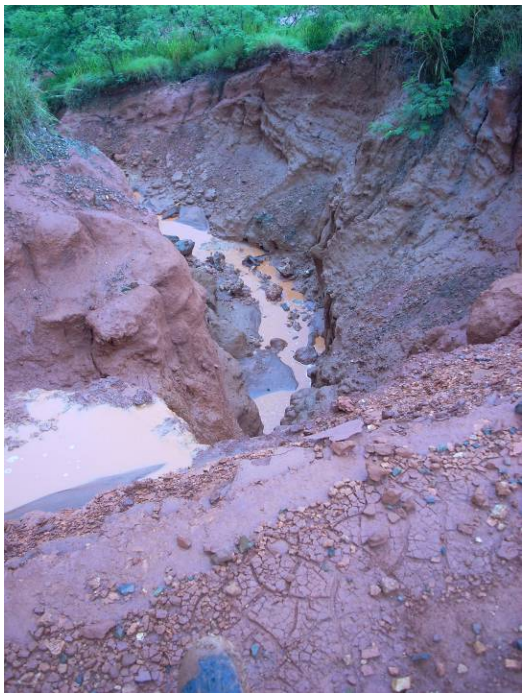


Erosion channel on south side of Red Mud Disposal Area A.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A

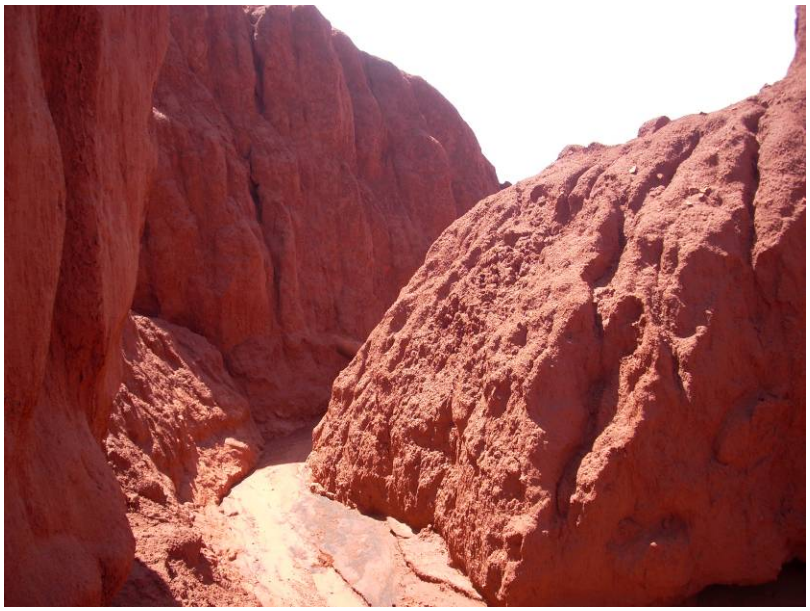


Surface water runoff from Red Mud Disposal Area A, looking north.



Surface water runoff along east side of Red Mud Disposal Area A, looking south.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A

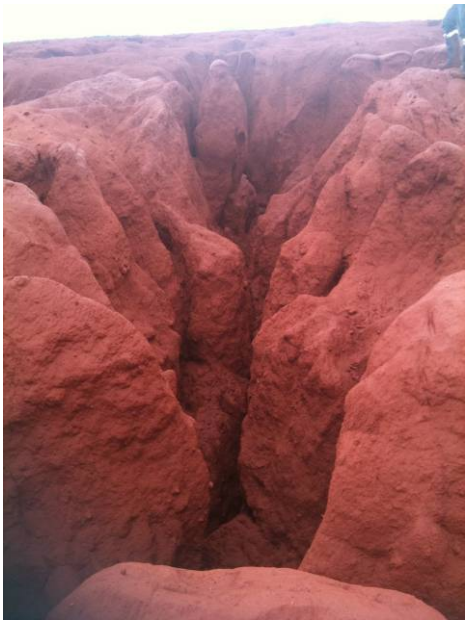


Erosion channel in Red Mud Disposal Area A, looking south.



Erosion channels and wall collapse in Red Mud Disposal Area A, looking west.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A



Erosion channel in Red Mud Disposal Area A, looking south.



Collecting subsurface waste sample from sidewall of erosion channel in Disposal Area A.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A



Collecting subsurface waste sample RMA-WST09B from erosion channel in Red Mud Disposal Area A using stainless-steel hand auger.



Borehole from subsurface waste sample RMA-WST10B collected in Red Mud Disposal Area A.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A



Borehole from subsurface waste sample RMA-WST14B collected in Red Mud Disposal Area A.



Homogenizing surface waste sample collected along southern road of Red Mud Disposal Area A, looking east.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A



Collection of subsurface waste sample, Red Mud Disposal Area A.



Decontaminating stainless-steel bucket Auger using Alconox and Deionized water.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A



Conducting radioisotope screening from surface of Red Mud Disposal Area A.



Conducting radioisotope screening at 1-meter above ground surface in Red Mud Disposal Area A.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A



Conducting thermal ionization mass spectrometry from sample volume collected in Red Mud Disposal Area A, looking north.



Collecting Global Positioning System (GPS) coordinates from sample collection location in Red Mud Disposal Area A.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A



Ponded surface water on the top of Red Mud Disposal Area A (sample location SW-RMA-WST12), looking south toward the Caribbean Sea.



Surface waste sample RMA-WST-R02 sample location along the northeast corner of Red Mud Disposal Area A upper surface water pond, looking west.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A



Wood slave gecko in Red Mud Disposal Area A



Snail on top of Red Mud Disposal Area A.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A Depositional Area



Sample location RMA-SD58 in Red Mud Disposal Area A Depositional Area, looking south.



Collection of sediment sample RMA-SD58 from Red Mud Disposal Area A Depositional Area, looking north.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area A Depositional Area



Collection of sediment sample RMA-SD62 from southern point of Red Mud Disposal Area A Depositional Area, looking east.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area B



Red Mud Disposal Area B, looking north.



Exposure of red mud beneath caliche layer along south edge of Red Mud Disposal Area B, looking northwest.

Photo Documentation
St. Croix Alumina – Sampling Event
August 12-21, 2011
Red Mud Disposal Area B



Sample location RMB-WST37 from southern border of Red Mud Disposal Area B, looking east.



Hand augering subsurface interval at RMB-WST37 sample location, looking south.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area B



Location of waste sample RMB-WST39 near the south end of the drainage ditch, looking south.



Collection of surface sample at RMB-WST39 sample location, looking east.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area B



Using stainless steel hand auger to collect subsurface waste sample at RMB-WST39 sample location, looking east.



Ground water level just beneath ground surface in borehole at sample location RMB-WST39.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area B



Collection of surface waste sample RMB-WST38A from exposed red mud area in Red Mud Disposal Area B, looking east.



RMB-WST22 sample location, looking west.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area B



Surface water drainage pathway at RMB-WST22 sample location, looking north.



Sample collection at RMB-WST22, looking east.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area B



RMB-WST40 sample location, looking northeast.



Sample collection at RMB-WST34, looking north.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Disposal Area B



Decontaminating stainless steel bucket auger at sample location RMB-WST30, looking north.



Area of sample location RMB-WST24, looking west.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Ash Disposal Pond



Ash Disposal Pond, looking west towards sample location ADP-SW50/ADP-SD50.



Ash disposal area, looking north.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Ash Disposal Pond



Using stainless steel hand auger to bore subsurface waste sample from ADP-WST41 location, looking west.



Using stainless steel hand auger to bore subsurface waste sample from ADP-WST41 location, looking southwest.

Photo Documentation
St. Croix Alumina – Sampling Event
August 12-21, 2011
Ash Disposal Pond



ADP-SD42 sample location from eroded channel along east side of Ash Disposal Area, looking north.



Using hand auger to determine average depth of ash material throughout Ash Disposal Area, looking east.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Former Bauxite Storage Shed



View of Former Bauxite Storage Shed located between molasses storage tanks and Alucroix Channel, looking southeast towards Caribbean Sea.



View of Former Bauxite Storage Shed from top of Red Mud Disposal Area A, looking south.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Former Bauxite Storage Shed



Former Bauxite Shed next to molasses tank, looking east.



Waste pile containing red mud in the Former Bauxite Storage Shed, looking southwest.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Former Bauxite Storage Shed

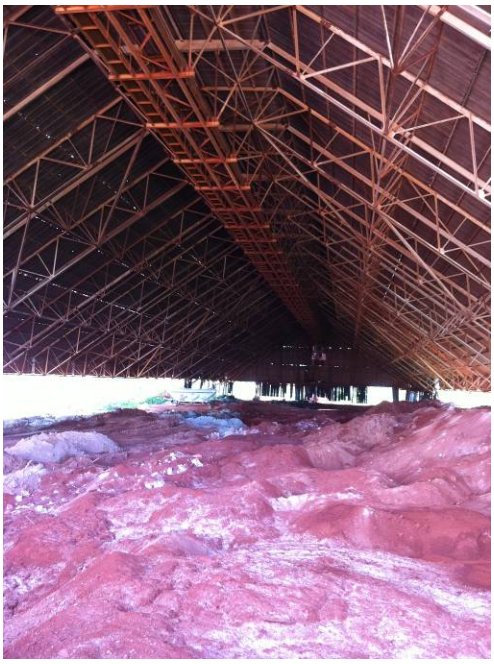


Collection of waste sample from location FBS-WST44, looking west.



Inside Former Bauxite Shed looking east from top of pile.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Former Bauxite Storage Shed



View inside Former Bauxite Storage Shed, looking east.



View inside Former Bauxite Storage Shed, looking southwest.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Settling Pond



Red Mud Settling Pond looking south from Red Mud Disposal Area A toward Alucroix Channel and the Caribbean Sea.



Southern end of Red Mud Settling Pond, looking northeast.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Settling Pond



Red Mud Settling Pond, looking southwest toward Upper Cooling Pond.



Red Mud Settling Pond looking north toward Red Mud Disposal Area A.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Red Mud Settling Pond



Homogenizing sediment sample RMS-SD-46 collected from east edge of Red Mud Settling Pond.



Collection of sediment sample RMS-SD47 from runoff channel leading to north end of Red Mud Settling Pond, looking east.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Upper Cooling Pond



View across Upper Cooling Pond toward Red Mud Disposal Area A, looking north.



Outfall from southern end of Upper Cooling Pond toward Lower Cooling Pond, looking east.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Upper Cooling Pond



Water channeling through Upper Cooling Pond, looking south.



Collection of sediment sample UCP-SD39 from Upper Cooling Pond, looking north.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Upper Cooling Pond



Surface water/sediment sample location UCP-SW39 in Upper Cooling Pond water channel.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Lower Cooling Pond



Collecting radioisotope screening at one-meter above ground surface from Lower Cooling Pond at sample location LCP-SW29, looking west.



Black mangrove pneumatophores along bank of Lower Cooling Pond, looking southwest.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Lower Cooling Pond



Lower Cooling Pond sample location LCP-SW31, looking northwest.



Collecting pH measurements from Lower Cooling Pond at sample location LCP-SW32, looking southwest.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Lower Cooling Pond



Significant red mud deposit in sediment sample LCP-SD33 from Lower Cooling Pond.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Mangroves and West Ditch



Lagoon discharge at red mangroves along Caribbean Sea, southern edge of site, looking east from sample location MAN-SW16.



Radioisotope screening of red mud staining at sample location MAN-SW17 in mangrove lagoon between Lower Cooling Pond and Caribbean Sea, looking southeast.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Mangroves and West Ditch



Collection of sediment sample MAN-SD20 form mangrove area in former west ditch.



Residual red mud on west side of east side of west ditch near southern end, looking west.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Alucroix Channel



View of Alucroix Channel from top of Red Mud Disposal Area A, looking southeast across Red Mud Settling Pond.



Red mangroves along the western side of Alucroix Channel, looking northeast.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Alucroix Channel



ACC-SW01 sample location, looking northeast with mangroves lining channel in background.



Collection of sample ACC-SW01 from Alucroix Channel, looking northeast.

Photo Documentation
St. Croix Alumina – Sampling Event
September 12-21, 2011
Alucroix Channel



Collection of surface water sample ACC-SW04 in Alucroix Channel, looking southeast toward Caribbean Sea.



Collecting GPS coordinates at sample location ACC-SW05, located in a mangrove area at the edge of Alucroix Channel; looking west.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Looking north-northwest at eroded south edge of Red Mud Disposal Area A.



Erosion channels and wall collapse along north edge of Red Mud Disposal Area A, looking east. Runoff flows east then south around perimeter and into RMA Depositional Area.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Drainage pathways at southeast corner of Red Mud Disposal Area A, looking southeast. Runoff flows south through RMA Depositional Area into Red Mud Settling Pond. Former Bauxite Shed in background.



Surface water runoff pathway along east side of Red Mud Disposal Area A, looking south. Runoff flows south through RMA Depositional Area and into Red Mud Settling Pond.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Inadequate containment structure along southern face of Red Mud Disposal Area A, looking northeast.



Beginning of culvert that flows south under toe road and into RMA Depositional Area.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



South end of culvert from previous photo, looking north. This drainage pathway leads past wells GM-13 and GM-13D and into the Red Mud Settling Pond.



Runoff of red mud-laden water over tire containment wall at south edge of RMA during heavy rain on September 20, 2011, looking north [still capture from video].

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Looking east-northeast at RMA runoff water flowing to culvert at south edge of RMA during heavy rain on September 20, 2011 [still capture from video].



Looking east at red mud-laden RMA runoff water discharging from culvert at south edge of RMA during heavy rain on September 20, 2011 [still capture from video]; RMA-SW57 sample location.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Red mud-laden runoff water from RMA flowing along drainage path that flows past wells GM-13 and GM-13D and into the Red Mud Settling Pond, looking east [still capture from video].



Outflow from Red Mud Disposal Area A into north end of Red Mud Settling Pond, looking northeast.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Red Mud Settling Pond (left) and Upper Cooling Pond (right), looking south from east end of Red Mud Disposal Area A.



Upland area and ruins within the RMA Depositional Area, looking southwest. Runoff generally flows around this area, but red mud was observed within 4 feet of ruins. Upper Cooling Pond on left.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Surface water runoff pathway along western edge of Red Mud Disposal Area A, looking north.



Outflow pipes from west side of Red Mud Disposal Area A into RMA Depositional Area, looking north.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Surface water runoff pathway from western edge of Red Mud Disposal Area A to RMA Depositional Area, looking south from area of outflow pipes.



Sample location RMA-SD62 in the RMA Depositional Area, looking east. This drainage pathway flows directly to the Upper Cooling Pond.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Erosion of exposed red mud at the north end of Red Mud Disposal Area B, looking west.



Exposed, eroded red mud at north end of Red Mud Disposal Area B, looking north across Red Mud Settling Pond with Red Mud Disposal Area A in the background.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Looking east across ponded water at north end of Red Mud Disposal Area B toward sample location RMB-WST24.



Discharge pipe leading from north end of Red Mud Disposal Area B directly into the Upper Cooling Pond.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Looking southwest from RMB discharge pipe across northern portion of Upper Cooling Pond.



Culvert on west side of Red Mud Disposal Area B. This culvert discharges to the Upper Cooling Pond via pipes shown in the next photograph.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Discharge pipes from west side of Red Mud Disposal Area B directly into the Upper Cooling Pond, looking north.



Water flowing south through northern part of Upper Cooling Pond, looking northeast.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Meandering channel flowing south through Upper Cooling Pond, looking south.



View across Upper Cooling Pond toward Red Mud Disposal Area A, looking north from southwest corner.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Outfall from Upper Cooling Pond to Lower Cooling Pond, looking west.



Discharge pipes from current southern end of West Ditch to Lower Cooling Pond, looking east.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Eroded channel through waste material along east side of Ash Disposal Pond, looking north.



North end of the drainage ditch that originates at the Ash Disposal Pond, flows through Red Mud Disposal Area B, and leads to the Lower Cooling Pond; looking north.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Exposed red mud and ponded water in Red Mud Disposal Area B downstream of the Ash Disposal Pond, looking east.



Continuation of the drainage ditch from the large exposed area in Red Mud Disposal Area B south towards the Lower Cooling Pond; looking north.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



South end of drainage ditch flowing from Red Mud Disposal Area B into channel along northern edge of Lower Cooling Pond; looking south.



Exposure of red mud beneath caliche layer along south edge of Red Mud Disposal Area B, looking west.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Red staining showing evidence of erosion and migration south from Red Mud Disposal Area B, through the interim channel and towards the Lower Cooling Pond; looking west.



Surface water draining from Red Mud Disposal Area B toward Lower Cooling Pond, looking south with Lower Cooling Pond in background.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Looking southwest from Red Mud Disposal Area B toward Lower Cooling Pond, with drainage channel visible at bottom.



Channel entering Lower Cooling Pond from Red Mud Disposal Area B, looking northwest.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



Looking north across Lower Cooling Pond; corner of Former Bauxite Shed can be seen at top right.



Erosion of waste pile and ponded water in the Former Bauxite Storage Shed, looking southwest.

Photo Documentation of Overland Drainage Pathways
St. Croix Alumina (Renaissance Park)



TPDES Outfall 001A at the eastern edge of the Lower Cooling Pond, looking north.



TPDES discharge channel toward Alucroix channel, looking east.



Mangrove wetlands along west side of Alucroix Channel, looking north from southern end of channel.



Mouth of Alucroix Channel, looking south-southeast toward the Caribbean Sea.



Outflow pipe from Lower Cooling Pond to Mangrove Lagoon, looking south.



Stressed vegetation in mangrove lagoon, looking south.



Lagoon discharge at red mangroves along Caribbean Sea, southern edge of site, looking east from sample location MAN-SW16.



Looking south at the Caribbean Sea from southern edge of the Site.

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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 1

No: 2-091211-154400-0001
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
BG-S01	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S01	09/12/2011 10:00		Field Sample
BG-S02	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S02	09/12/2011 10:35		Field Sample
BG-S03	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S03	09/12/2011 13:00		Field Sample
BG-S04	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S04	09/12/2011 13:47		Field Sample
BG-S05	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S05	09/12/2011 13:30		Field Sample
BG-S06	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S05	09/12/2011 13:35		Field Duplicate
BG-SS02	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S02	09/12/2011 10:50		Field Sample
MAN-SD09	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW09	09/12/2011 10:47		Field Sample
MAN-SD10	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW10	09/12/2011 11:25		Field Sample
MAN-SD11	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW11	09/12/2011 11:47		Field Sample
MAN-SW09	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	~~1022~~ (HNO3 pH<2), A (Cool to 4 C) (2)	MAN-SW09	09/12/2011 10:45		Field Sample

MAN-SW09 Not preserved DC

Sample(s) to be used for Lab QC: BG-S01

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

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Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MAN-SW10	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	DC DC DC 1029 (~~HNO3 pH<2~~), ~~A~~ (Cool to 4 C) (2)	MAN-SW10	09/12/2011 11:20		Field Sample
MAN-SW11	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	DC DC DC ~~1024 (HNO3 pH<2)~~, ~~A~~ (Cool to 4 C) (2)	MAN-SW11	09/12/2011 11:45		Field Sample

Special Instructions: MAN-SW10 and MAN-SW11 not preserved

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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2 To

Recipient's Name John Birri Phone (732) 906-6886

Company USEPA Region 2

Address 2890 Woodbridge Ave, Dept/Floor

Address Building 209 MS-230

City Edison State/Province NJ

Country USA ZIP/Postal Code 08837

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CarrierName: FedEx
AirbillNo: 874731027524

CHAIN OF CUSTODY RECORD
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Case #:
Cooler #: 1

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Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MAN-SD08	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW08	09/12/2011 16:20		Field Sample
MAN-SD12	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW12	09/12/2011 14:15		Field Sample
MAN-SD13	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW13	09/12/2011 15:33		Field Sample
MAN-SD14	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW14	09/12/2011 17:20		Field Sample
MAN-SD15	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW15	09/12/2011 17:05		Field Sample
MAN-SD16	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW16	09/12/2011 14:35		Field Sample
MAN-SW08	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	~~1021~~ (HNO3 pH<2), ~~A~~ (Cool to 4 C) (2)	MAN-SW08	09/12/2011 16:15		Field Sample
MAN-SW12	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	~~1026~~ (HNO3 pH<2), ~~A~~ (Cool to 4 C) (2)	MAN-SW12	09/12/2011 14:12		Field Sample
MAN-SW13	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	~~1025~~ (HNO3 pH<2), ~~A~~ (Cool to 4 C) (2)	MAN-SW13	09/12/2011 15:30		Field Sample
SD-RIN06	QA/QC/ SAT	Grab	TAL Inorganics (incl. Hg)	~~A~~ (HNO3 pH<2) (1)	Site	09/12/2011 14:10		Rinsate Blank

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/13/11	FedEx	9/13/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/13/2011
CarrierName: FedEx
AirbillNo: 874731027524

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 2

No: 2-091311-151335-0003
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
ACC-SD01	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), B (Cool to 4 C), D (Cool to 4 C) (3)	ACC-SW01	09/13/2011 09:57		MS/MSD
ACC-SD04	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	ACC-SW04	09/13/2011 10:20		Field Sample
ACC-SD05	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	ACC-SW05	09/13/2011 11:10		Field Sample
ACC-SD06	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	ACC-SW06	09/13/2011 11:40		Field Sample
ACC-SD07	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	ACC-SW07	09/13/2011 11:50		Field Sample
ACC-SD52	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	ACC-SW52	09/13/2011 12:15		Field Sample

Sample(s) to be used for Lab QC: ACC-SD01

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/13/11	FedEx	9/13/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/13/2011
CarrierName: FedEx
AirbillNo: 874731027524

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 3

No: 2-091311-155400-0006
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
ACC-SW01	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ACC-SW01	09/13/2011 09:52		MS/MSD
ACC-SW04	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ACC-SW04	09/13/2011 10:12		Field Sample
ACC-SW05	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ACC-SW05	09/13/2011 11:07		Field Sample
ACC-SW06	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ACC-SW06	09/13/2011 11:35		Field Sample
ACC-SW07	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ACC-SW07	09/13/2011 11:47		Field Sample
ACC-SW52	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ACC-SW52	09/13/2011 12:12		Field Sample
MAN-SW15	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	MAN-SW15	09/12/2011 17:00		Field Sample
MAN-SW16	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	MAN-SW16	09/12/2011 14:30		Field Sample
ACC-SW01	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1088 (HNO3 pH<2) (1)	ACC-SW01	09/13/2011 09:52		MS/MSD
ACC-SW04	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1097 (HNO3 pH<2) (1)	ACC-SW04	09/13/2011 10:12		Field Sample
ACC-SW05	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1098 (HNO3 pH<2) (1)	ACC-SW05	09/13/2011 11:07		Field Sample

Sample(s) to be used for Lab QC: ACC-SW01, ACC-SW01

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/13/11	FedEx	9/13/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/13/2011
CarrierName: FedEx
AirbillNo: 874731027524

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 3

No: 2-091311-155400-0006
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
ACC-SW06	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1099 (HNO3 pH<2) (1)	ACC-SW06	09/13/2011 11:35		Field Sample
ACC-SW07	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1100 (HNO3 pH<2) (1)	ACC-SW07	09/13/2011 11:47		Field Sample
ACC-SW52	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1077 (HNO3 pH<2) (1)	ACC-SW52	09/13/2011 12:12		Field Sample
MAN-SW14	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	1027 (HNO3 pH<2), (Cool to 4 C) (2)	MAN-SW14	09/12/2011 17:15		Field Sample
MAN-SW15	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1028 (HNO3 pH<2) (1)	MAN-SW15	09/12/2011 17:00		Field Sample
MAN-SW16	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1029 (HNO3 pH<2) (1)	MAN-SW16	09/12/2011 14:30		Field Sample

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/13/11	FedEx	9/13/11	1645						

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DELIVERED 9/16/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/13/11 Sender's FedEx Account Number 108 067 691 SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name John Birri Phone (732)906-6886

Company USEPA Region 2

Address 2890 Woodbridge Ave.

Address Building 209 MS-230 Dept/Floor

City Edison State Province NJ

Country USA ZIP Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 3

Total Weight 185 ☒ lbs ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (soil + water) For LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One

☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

☐ No EEI required, enter exemption number: If other than NLR, enter License Exception:

☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.– USD

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☐ ☐ FedEx Intl. Economy — FedEx Envelope and FedEx Pak rate not available.

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☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

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FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

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☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference — First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: Dan Carlson

This is not authorization to deliver this shipment without a recipient signature.

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For Completion Instructions, see back of fifth page.

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USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/14/2011
CarrierName: FedEx
AirbillNo: 873693948802

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 1

No: 2-091411-110541-0007
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
BG-SD53	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), B (Cool to 4 C) (2)	BG-SW53	09/13/2011 14:25		Field Sample
BG-SD54	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), B (Cool to 4 C) (2)	BG-SW54	09/13/2011 14:15		Field Sample
BG-SD55	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), B (Cool to 4 C) (2)	BG-SW55	09/13/2011 14:53		Field Sample
BG-SD56	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), B (Cool to 4 C) (2)	BG-SW56	09/13/2011 15:18		Field Sample
BG-SW53	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	BG-SW53	09/13/2011 14:22		Field Sample
BG-SW54	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	BG-SW54	09/13/2011 14:12		Field Sample
BG-SW55	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	BG-SW55	09/13/2011 14:47		Field Sample
BG-SW56	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	BG-SW56	09/13/2011 15:15		Field Sample
BG-SW53	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1080 (HNO3 pH<2) (1)	BG-SW53	09/13/2011 14:22		Field Sample
BG-SW54	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1083 (HNO3 pH<2) (1)	BG-SW54	09/13/2011 14:12		Field Sample
BG-SW55	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1084 (HNO3 pH<2) (1)	BG-SW55	09/13/2011 14:47		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/14/11	FedEx	9/14/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/14/2011
CarrierName: FedEx
AirbillNo: 873693948802

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 1

No: 2-091411-110541-0007
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
BG-SW56	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	DC ~~4087~~ (HNO3 pH<2) (1)	BG-SW56	09/13/2011 15:15		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/14/11	FedEx	9/14/11	1645						

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DELIVERED 9/16/11

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1 From *Please print and press hard.*

Date 09/14/11 Sender's FedEx Account Number 108 067 691 SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-906-6886

Company USEPA Region 2

Address 2890 Woodbridge Ave. Dept./Floor

Address Building 209 MS-230

City Edison State Province NJ

Country USA ZIP Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EU only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 53 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (soil + water) for LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.- USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

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☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only.)

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

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FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: Enter FedEx Acct. No. below. ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature]

This is not authorization to deliver this shipment without a recipient signature.

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USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/15/2011
CarrierName: FedEx
AirbillNo: 874731027535

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 1

No: 2-091411-182630-0011
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
ADP-SW48	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ADP-SW48	09/14/2011 12:18		Field Sample
ADP-SW50	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ADP-SW50	09/14/2011 12:48		Field Sample
ADP-SW51	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ADP-SW51	09/14/2011 13:18		Field Sample
LCP-SW26	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW26	09/14/2011 10:19		Field Sample
LCP-SW27	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW27	09/14/2011 09:57		Field Sample
LCP-SW28	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW28	09/14/2011 10:55		Field Sample
LCP-SW29	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW29	09/14/2011 10:51		Field Sample
LCP-SW30	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW30	09/14/2011 11:33		Field Sample
ADP-SW48	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1073 (HNO3 pH<2) (1)	ADP-SW48	09/14/2011 12:18		Field Sample
ADP-SW50	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1075 (HNO3 pH<2) (1)	ADP-SW50	09/14/2011 12:48		Field Sample
ADP-SW51	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1076 (HNO3 pH<2) (1)	ADP-SW51	09/14/2011 13:18		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/15/11	FedEx	9/15/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/15/2011
CarrierName: FedEx
AirbillNo: 874731027535

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 1

No: 2-091411-182630-0011
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
LCP-SW26	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1039 (HNO3 pH<2) (1)	LCP-SW26	09/14/2011 10:19		Field Sample
LCP-SW27	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1040 (HNO3 pH<2) (1)	LCP-SW27	09/14/2011 09:57		Field Sample
LCP-SW28	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1041 (HNO3 pH<2) (1)	LCP-SW28	09/14/2011 10:55		Field Sample
LCP-SW29	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1042 (HNO3 pH<2) (1)	LCP-SW29	09/14/2011 10:51		Field Sample
LCP-SW30	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1049 (HNO3 pH<2) (1)	LCP-SW30	09/14/2011 11:33		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 2

No: 2-091511-113612-0012
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
LCP-SD31	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	DC DC A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW31	09/14/2011 10:50		Field Sample
LCP-SD32	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW32	09/14/2011 11:20		Field Sample
LCP-SD33	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW33	09/14/2011 12:05		Field Sample
LCP-SW31	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW31	09/14/2011 10:44		Field Sample
LCP-SW32	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW32	09/14/2011 11:15		Field Sample
LCP-SW33	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW33	09/14/2011 12:00		Field Sample
MAN-SD17	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	DC A (Cool to 4 C), C (Cool to 4 C) (2)	MAN-SW17	09/14/2011 10:25		Field Sample
MAN-SD20	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	MAN-SW20	09/14/2011 11:40		Field Sample
MAN-SD21	Sediment/ SAT		TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	MAN-SW21	09/14/2011 12:35		MS/MSD
MAN-SW17	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	MAN-SW17	09/14/2011 10:22		Field Sample
MAN-SW20	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	MAN-SW20	09/14/2011 11:30		Field Sample

Sample(s) to be used for Lab QC: MAN-SD21, MAN-SW21

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 2

No: 2-091511-113612-0012
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
MAN-SW21	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	MAN-SW21	09/14/2011 12:30		MS/MSD
LCP-SW31	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1050 (HNO3 pH<2) (1)	LCP-SW31	09/14/2011 10:44		Field Sample
LCP-SW32	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1051 (HNO3 pH<2) (1)	LCP-SW32	09/14/2011 11:15		Field Sample
LCP-SW33	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1052 (HNO3 pH<2) (1)	LCP-SW33	09/14/2011 12:00		Field Sample
MAN-SW17	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1030 (HNO3 pH<2) (1)	MAN-SW17	09/14/2011 10:22		Field Sample
MAN-SW20	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1033 (HNO3 pH<2) (1)	MAN-SW20	09/14/2011 11:30		Field Sample
MAN-SW21	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1034 (HNO3 pH<2) (1)	MAN-SW21	09/14/2011 12:30		MS/MSD

Sample(s) to be used for Lab QC: MAN-SW21, MAN-SW21

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 3

No: 2-091511-125944-0013
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC DC	Station Location	Collected	Organic Sample #	Sample Type
UCP-SD34	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW34	09/14/2011 16:25		Field Sample
UCP-SD35	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW35	09/14/2011 17:05		Field Sample
UCP-SD37	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW37	09/14/2011 17:43		Field Sample
UCP-SW39	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW39	09/14/2011 17:20		Field Sample
UCP-SW41	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1) DC	UCP-SW41	09/14/2011 18:05		MS/MSD
WES-SD22	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	WES-SW22	09/14/2011 16:37		Field Sample
WES-SD23	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	WES-SW22	09/14/2011 16:38		Field Duplicate
WES-SD24	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	WES-SW24	09/14/2011 17:27		Field Sample
UCP-SW39	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1060 (HNO3 pH<2) (1)	UCP-SW39	09/14/2011 17:20		Field Sample
UCP-SW41	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1062 (HNO3 pH<2) (1)	UCP-SW41	09/14/2011 18:05		MS/MSD

Sample(s) to be used for Lab QC: UCP-SW41, UCP-SW41

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 4

No: 2-091511-134842-0014
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
ADP-SW49	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ADP-SW49	09/14/2011 12:05		Field Sample
RMS-SW45	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	RMS-SW45	09/14/2011 18:17		Field Sample
UCP-SW34	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW34	09/14/2011 16:20		Field Sample
UCP-SW35	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW35	09/14/2011 17:00		Field Sample
UCP-SW37	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW37	09/14/2011 17:38		Field Sample
UCP-SW40	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW40	09/14/2011 17:40		Field Sample
WES-SW22	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	WES-SW22	09/14/2011 16:32		Field Sample
WES-SW23	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	WES-SW22	09/14/2011 16:33		Field Duplicate
WES-SW24	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	WES-SW24	09/14/2011 17:22		Field Sample
ADP-SW49	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1074 (HNO3 pH<2) (1)	ADP-SW49	09/14/2011 12:05		Field Sample
RMS-SW45	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1068 (HNO3 pH<2) (1)	RMS-SW45	09/14/2011 18:17		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 4

No: 2-091511-134842-0014
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
UCP-SW34	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1055 (HNO3 pH<2) (1)	UCP-SW34	09/14/2011 16:20		Field Sample
UCP-SW35	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1056 (HNO3 pH<2) (1)	UCP-SW35	09/14/2011 17:00		Field Sample
UCP-SW37	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1058 (HNO3 pH<2) (1)	UCP-SW37	09/14/2011 17:38		Field Sample
UCP-SW40	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1061 (HNO3 pH<2) (1)	UCP-SW40	09/14/2011 17:40		Field Sample
WES-SW22	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1035 (HNO3 pH<2) (1)	WES-SW22	09/14/2011 16:32		Field Sample
WES-SW23	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1036 (HNO3 pH<2) (1)	WES-SW22	09/14/2011 16:33		Field Duplicate
WES-SW24	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1037 (HNO3 pH<2) (1)	WES-SW24	09/14/2011 17:22		Field Sample

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 5

No: 2-091511-153211-0016
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC DC	Station Location	Collected	Organic Sample #	Sample Type
MAN-SD19	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	MAN-SW19	09/15/2011 10:16		Field Sample
RMS-SD42	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	RMS-SW42	09/15/2011 09:07		Field Sample
RMS-SD43	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	RMS-SW42	09/15/2011 09:08		Field Duplicate
RMS-SD45	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	RMS-SW45	09/14/2011 18:20		Field Sample
RMS-SD46	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	RMS-SW46	09/15/2011 08:28		Field Sample
RMS-SD47	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	RMS-SW47	09/15/2011 08:55		Field Sample
UCP-SD39	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW39	09/14/2011 17:25		Field Sample
UCP-SD40	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW40	09/14/2011 17:45		Field Sample
UCP-SD41	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW41	09/14/2011 18:10		MS/MSD

Sample(s) to be used for Lab QC: UCP-SD41

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon

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Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company USEPA Region 2

Address 2890 Woodbridge Ave. Dept./Floor

Address Building 209 MS-230

City Edison State/Province NJ

Country USA ZIP/Postal Code 08837

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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091611-084744-0017
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
ADP-SD48	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	ADP-SW48	09/14/2011 12:20		Field Sample
ADP-SD49	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	ADP-SW49	09/14/2011 12:07		Field Sample
ADP-SD50	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	ADP-SW50	09/14/2011 12:51		Field Sample
ADP-SD51	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	ADP-SW51	09/14/2011 13:20		Field Sample
LCP-SD26	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW26	09/14/2011 10:21		Field Sample
LCP-SD27	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW27	09/14/2011 10:00		Field Sample
LCP-SD28	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW28	09/14/2011 10:37		Field Sample
LCP-SD29	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW29	09/14/2011 10:54		Field Sample
LCP-SD30	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW30	09/14/2011 11:36		Field Sample
MAN-SW19	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	MAN-SW19	09/15/2011 10:12		Field Sample
RMS-SW42	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	RMS-SW42	09/15/2011 09:01		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091611-084744-0017
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
RMS-SW43	Surface Water/ SAT	Grab	Cl	DC A (Cool to 4 C) (1)	RMS-SW42	09/15/2011 09:02		Field Duplicate
RMS-SW46	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	RMS-SW46	09/15/2011 08:25		Field Sample
MAN-SW19	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1032 (HNO3 pH<2) (1)	MAN-SW19	09/15/2011 10:12		Field Sample
RMS-SW42	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1065 (HNO3 pH<2) (1)	RMS-SW42	09/15/2011 09:01		Field Sample
RMS-SW43	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1066 (HNO3 pH<2) (1)	RMS-SW42	09/15/2011 09:02		Field Duplicate
RMS-SW46	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1069 (HNO3 pH<2) (1)	RMS-SW46	09/15/2011 08:25		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

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CarrierName: FedEx
AirbillNo: 874731027557

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-091611-123015-0020
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
ADP-SD48	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	ADP-SW48	09/14/2011 12:20		Field Sample
ADP-SD49	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	ADP-SW49	09/14/2011 12:07		Field Sample
ADP-SD51	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	ADP-SW51	09/14/2011 13:20		Field Sample
LCP-SD26	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW26	09/14/2011 10:21		Field Sample
LCP-SD27	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW27	09/14/2011 10:00		Field Sample
LCP-SD29	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW29	09/14/2011 10:54		Field Sample
MAN-SD19	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	MAN-SW19	09/15/2011 10:16		Field Sample
RMS-SD42	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	RMS-SW42	09/15/2011 09:07		Field Sample
RMS-SD43	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	RMS-SW42	09/15/2011 09:08		Field Duplicate
RMS-SD45	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	RMS-SW45	09/14/2011 18:20		Field Sample
RMS-SD46	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	RMS-SW46	09/15/2011 08:28		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/16/11	Fed Ex	9/16/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/16/2011
CarrierName: FedEx
AirbillNo: 874731027557

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-091611-123015-0020
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMS-SD47	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	RMS-SW47	09/15/2011 08:55		Field Sample
UCP-SD34	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW34	09/14/2011 16:25		Field Sample
UCP-SD35	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW35	09/14/2011 17:05		Field Sample
UCP-SD37	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW37	09/14/2011 17:43		Field Sample
UCP-SD39	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW39	09/14/2011 17:25		Field Sample
UCP-SD40	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW40	09/14/2011 17:45		Field Sample
UCP-SD41	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW41	09/14/2011 18:10		MS/MSD
WES-SD22	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	WES-SW22	09/14/2011 16:37		Field Sample
WES-SD23	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	WES-SW22	09/14/2011 16:38		Field Duplicate
WES-SD24	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	WES-SW24	09/14/2011 17:27		Field Sample

Sample(s) to be used for Lab QC: UCP-SD41

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/16/11	FedEx	9/16/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/16/2011
CarrierName: FedEx
AirbillNo: 874731027557

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 3

No: 2-091411-111232-0009
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
ADP-SD50	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	ADP-SW50	09/14/2011 12:51		Field Sample
BG-SD53	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	BG-SW53	09/13/2011 14:25		Field Sample
BG-SD54	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	BG-SW54	09/13/2011 14:15		Field Sample
BG-SD55	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	BG-SW55	09/13/2011 14:53		Field Sample
BG-SD56	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	BG-SW56	09/13/2011 15:18		Field Sample
LCP-SD28	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW28	09/14/2011 10:37		Field Sample
LCP-SD30	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW30	09/14/2011 11:36		Field Sample
LCP-SD31	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW31	09/14/2011 10:50		Field Sample
LCP-SD32	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW32	09/14/2011 11:20		Field Sample
LCP-SD33	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW33	09/14/2011 12:05		Field Sample
MAN-SD17	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	MAN-SW17	09/14/2011 10:25		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/16/11	FedEx	9/16/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/16/2011
CarrierName: FedEx
AirbillNo: 874731027557

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 3

No: 2-091411-111232-0009
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
MAN-SD20	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	MAN-SW20	09/14/2011 11:40		Field Sample
MAN-SD21	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	MAN-SW21	09/14/2011 12:35		MS/MSD
UCP-SD36	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW36	09/15/2011 16:05		Field Sample
UCP-SD38	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW38	09/16/2011 17:36		Field Sample
WES-SD25	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	WES-SW25	09/16/2011 16:57		Field Sample

Sample(s) to be used for Lab QC: MAN-SD21

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	David Lake	9/16/11	FedEx	9/16/11	1645						

FedEx Express

International Air Waybill

For FedEx services worldwide.

DELIVERED 9/17/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/16/11 Sender's FedEx Account Number 108 067 691

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company US EPA Region 2

Address 2890 Woodbridge Ave. Dept/Floor

Address Building 209 MS-230

City Edison State/Province NJ

Country USA ZIP/Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EU Only: tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 3

Total Weight 15 ☒ lbs. ☐ kg

DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (Soil + water) for LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One

☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

☐ No EEI required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.- USD

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Packages up to 150 lbs. / 68 kg
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☐ _____ ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

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☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☒ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only.)

7 Payment

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Bill transportation charges to:

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender (Acct. No. in Section 1 will be billed.) ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque

FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to:

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender (Acct. No. in Section 1 will be billed.) ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: Dan Carlson

This is not authorization to deliver this shipment without a recipient signature.

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FedEx Tracking Number 8747 3102 7557

Form ID No. 0402

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USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/16/2011
CarrierName: FedEx
AirbillNo: 874731024694

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091611-095356-0018
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
UCP-SW36	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW36	09/15/2011 16:02		Field Sample
UCP-SW38	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW38	09/15/2011 19:34		Field Sample
UCP-SW36	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1057 (HNO3 pH<2) (1)	UCP-SW36	09/15/2011 16:02		Field Sample
UCP-SW38	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1059 (HNO3 pH<2) (1)	UCP-SW38	09/15/2011 19:34		Field Sample
WST-RIN01	QA/QC/ SAT	Grab	TAL Inorganics (incl. Hg)	1002 (HNO3 pH<2) (1)	Site	09/15/2011 18:25		Rinsate Blank
WST-RIN02	QA/QC/ SAT	Grab	TAL Inorganics (incl. Hg)	1005 (HNO3 pH<2) (1)	Site	09/16/2011 15:21		Rinsate Blank

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
———	[signature]	9/16/11	FedEx	9/16/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/17/11

✓ **Sender's Copy**

1 From *Please print and press hard.*

Date 09/16/11 Sender's FedEx Account Number 108 067 691
FOR FEDEX EXPRESS COURIER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company US EPA Region 2

Address 2890 Woodbridge Ave. Dept/Floor

Address Building 209 MS-230

City Edison State Province NJ

Country USA ZIP Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1

Total Weight 41 ☒ lbs ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (water) for LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: If other than NLR, enter License Exception:
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $ 200.- USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg — For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First — Available to select locations.
☐ _____ ☐ FedEx Intl. Economy — FedEx Envelope and FedEx Pak rate not available.

5 Packaging — *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☒ SATURDAY Delivery — Available to select locations for FedEx Intl. Priority only.

7 Payment — Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: — Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/Cheque — FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: — ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference — First 24 characters will appear on invoice.

20405.016.013.1455

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature]

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

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USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 868315994729

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091911-094707-0025
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST02B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST02	09/15/2011 11:35		Field Sample
RMA-WST03B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST03	09/15/2011 14:30		Field Sample
RMA-WST04B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST04	09/15/2011 14:51		Field Sample
RMA-WST05A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST05	09/15/2011 15:30		Field Sample
RMA-WST05B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST05	09/15/2011 15:22		Field Sample
RMA-WST06B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST06	09/15/2011 15:45		Field Sample
RMA-WST12B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST12	09/15/2011 15:00		Field Sample
RMA-WST18B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST18	09/15/2011 17:00		Field Sample

Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/19/11	FedEx	9/19/11	1400						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 868315994729

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-091911-102614-0026
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST01B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST01	09/16/2011 10:40		Field Sample
RMA-WST01C	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST01	09/16/2011 10:45		Field Duplicate
RMA-WST07B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST07	09/16/2011 09:50		Field Sample
RMA-WST08A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST08	09/16/2011 09:35		Field Sample
RMA-WST08B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST08	09/16/2011 09:35		Field Sample
RMA-WST10A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST10	09/16/2011 11:00		Field Sample
RMA-WST10B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST10	09/16/2011 11:05		MS/MSD
RMA-WST11B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST11	09/16/2011 11:20		Field Sample
RMA-WST19B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST19	09/16/2011 09:00		Field Sample

Sample(s) to be used for Lab QC: RMA-WST10B - Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/19/11	FedEx	9/19/11	1400						

FedEx Express

Expanded Service International Air Waybill

For FedEx services worldwide including express freight services, dangerous goods, broker select, and letter of credit.

Sender's Copy

DELIVERED 9/20/11

1 From *Please print and press hard.*

Date 09/19/11 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company USEPA Region 2

Address 2890 Woodbridge Ave

Address Building 209 Dept./Floor MS-230

City Edison State Province NJ

Country USA ZIP Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages (Shipper's Load and Count/SLAC) 2 Total Weight 9/7 ☒ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Bauxite Processing Mixture FOR LAB TESTING ONLY			$200.00
FOLD HERE BEFORE INSERTING IN POUCH.			
COMPLETE IN ENGLISH.			

Has EEI/SED been filed in AES? For U.S. Export Only: Check One

☒ No EEI/SED required, value $2,500 or less per Schedule B Number, no license required (NLR), not subject to ITAR.

☐ No EEI/SED required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200.- USD

For Completion Instructions, see back of fifth page.

Questions?
Go to our Web site at fedex.com.
or
In the U.S., call 1.800.247.4747.
Outside the U.S., call your local FedEx office.

The terms and conditions of service may vary from country to country. Consult our local office for specific information.
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The World On Time.

Not all services and options are available to all destinations.

4a Express Package Service *Packages up to 150 lbs. / 68 kg*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations. Higher rates apply. ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

☐ ____ | | |

4b Express Freight Service *Packages over 150 lbs. / 68 kg*

☐ FedEx Intl. Priority Freight ☐ FedEx Intl. Economy Freight

Booking Number REQUIRED
Please call your local FedEx office to book shipments.

5 Packaging

*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler Plastic Box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6a Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only. ☐ ____ | | |

Does this shipment contain dangerous goods? One box must be checked / ticked.

☐ No ☒ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

6b Broker Selection

Not available with FedEx Intl. First. ☐ Intl. Broker Select To specify a broker other than FedEx.

Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/ Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:*

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department license. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract.

WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: Dan Carlson

This is not authorization to deliver this shipment without a recipient signature.

FedEx Courier Receipt: Date: 09/19/11

For letter of credit shipments only.

Ship and track packages at fedex.com

FedEx Tracking Number 8683 1599 4729 Form ID No. 0425

522

PART 158412 • Rev. Date 4/06
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USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 874731024710

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091611-160154-0021
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST01A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST01	09/16/2011 10:40		MS/MSD
RMA-WST02A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST02	09/15/2011 08:10		Field Sample
RMA-WST03A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST03	09/15/2011 10:30		Field Sample
RMA-WST04A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST04	09/15/2011 10:55		Field Sample
RMA-WST06A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST06	09/16/2011 15:45		Field Sample
RMA-WST07A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST07	09/16/2011 09:50		Field Sample
RMA-WST09A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST09	09/16/2011 09:15		Field Sample
RMA-WST09B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST09	09/16/2011 09:15		Field Sample
RMA-WST11A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST11	09/16/2011 11:20		Field Sample
RMA-WST11C	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST11	09/16/2011 11:25		Field Duplicate
RMA-WST12A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST12	09/15/2011 11:20		Field Sample

Sample(s) to be used for Lab QC: RMA-WST01A

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/19/11	FedEx	9/19/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 874731024710

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091611-160154-0021
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST13A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST13	09/15/2011 13:16		Field Sample
RMA-WST13B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST13	09/15/2011 16:15		Field Sample
RMA-WST18A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST18	09/15/2011 17:00		Field Sample
RMA-WST19A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST19	09/16/2011 09:00		Field Sample
RMA-WST20A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST20	09/15/2011 16:35		Field Sample
RMA-WST20B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST20	09/15/2011 16:40		Field Sample
UCP-SD36	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW36	09/15/2011 16:05		Field Sample
UCP-SD38	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW38	09/16/2011 17:36		Field Sample
WES-SD25	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	WES-SW25	09/16/2011 16:57		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	David Cash	9/19/11	FedEx	9/19/11	1645						

FedEx Express — International Air Waybill

For FedEx services worldwide.

DELIVERED 9/21/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/19/11 Sender's FedEx Account Number 108 067 691

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company US EPA Region 2

Address 2890 Woodbridge Ave. Dept./Floor

Address Building 209 MS-230

City Edison State/Province NJ

Country USA ZIP/Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EEI Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1

Total Weight 23 ☑ lbs. ☐ kg

DIM ☐ in. ☐ cm L / W / H

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (soil) FOR LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One

☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

☐ No EEI required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200. USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First (Available to select locations.)

☐ _____ ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only.)

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque

FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: Enter FedEx Acct. No. below. ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: David Carlson

This is not authorization to deliver this shipment without a recipient signature.

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Form ID No. 0402

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USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024775

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092011-150526-0032
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
ADP-WST41A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	ADP-WST41	09/19/2011 10:15		Field Sample
ADP-WST41B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	ADP-WST41	09/19/2011 10:15		Field Sample
ADP-WST41C	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	ADP-WST41	09/19/2011 10:20		Field ~~Sample~~ DC Duplicate
ADP-WST42A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	ADP-WST42	09/19/2011 10:35		MS/MSD
RMA-WST14A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST14	09/16/2011 14:50		Field Sample
RMA-WST14B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST14	09/16/2011 14:50		Field Sample
RMA-WST15A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST15	09/16/2011 14:35		Field Sample
RMA-WST16A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST16	09/16/2011 14:15		Field Sample
RMA-WST16B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST16	09/16/2011 14:15		Field Sample
RMA-WST17A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST17	09/16/2011 14:00		Field Sample
RMA-WST17B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST17	09/16/2011 14:00		Field Sample

Sample(s) to be used for Lab QC: ADP-WST42A

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/20/11	FedEx	9/20/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024775

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092011-150526-0032
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMB-WST24A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST24	09/19/2011 17:40		Field Sample
RMB-WST28A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST28	09/19/2011 12:30		Field Sample
RMB-WST29A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST29	09/19/2011 11:35		Field Sample
RMB-WST30A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST30	09/19/2011 12:10		Field Sample
RMB-WST30B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST30	09/19/2011 12:10		MS/MSD
RMB-WST32A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST32	09/19/2011 12:45		Field Sample
RMB-WST34A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST34	09/19/2011 09:35		Field Sample
RMB-WST36A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST36	09/19/2011 09:20		Field Sample
RMB-WST38A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST38	09/19/2011 08:35		Field Sample
RMB-WST39A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST39	09/19/2011 08:00		Field Sample
RMB-WST39B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST39	09/19/2011 08:00		Field Sample

Sample(s) to be used for Lab QC: RMB-WST30B

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/20/11	FedEx	9/20/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024775

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092011-150526-0032
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
RMB-WST40A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	DC-A (Cool to 4 C) (1)	RMB-WST40	09/19/2011 12:00		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/20/11	FedEx	9/20/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/22/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/20/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company USEPA Region 2

Address 2890 Woodbridge Ave

Address Building 209 MS-230 Dept./Floor

City Edison State Province NJ

Country USA ZIP Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 56 ☒ lbs ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Bauxite Processing Mixture FOR LAB TESTING ONLY			$200.-

Has EEI been filed in AES? *For U.S. Export Only: Check One*

☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

☐ No EEI required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.- USD

4 Express Package Service *Packages up to 150 lbs. / 68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations.

☐ _____ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature]

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

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For Completion Instructions, see back of fifth page.

FedEx Tracking Number 8747 3102 4775 Form ID No. 0402

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Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA Inorganics COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024797

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092111-114019-0036
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
MW-RIN03	QA/QC/ SAT	Grab	Cl	D (Cool to 4 C) (1) DC	Site	09/19/2011 19:00		Rinsate Blank
SCA-GW02	Ground Water/ SAT/RST	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	G-9	09/19/2011 11:25		Field Sample
SCA-GW02F	Filtered Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	G-9	09/19/2011 11:25		Field Sample
SCA-GW03	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	VW16	09/19/2011 17:37		Field Sample
SCA-GW03F	Filtered Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	VW16	09/19/2011 17:37		Field Sample
SCA-GW04	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	G-11	09/19/2011 14:06		Field Sample
SCA-GW04F	Filtered Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	G-11	09/19/2011 14:06		Field Sample
SCA-GW07	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	VW25	09/19/2011 15:51		Field Sample
SCA-GW07F	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	VW25	09/19/2011 15:51		Field Sample
SCA-GW08	Ground Water/ SAT/RST	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-14	09/20/2011 10:22		Field Sample
SCA-GW08F	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-14	09/20/2011 10:22		Field Sample
MW-RIN03	QA/QC/ SAT	Grab	TAL Inorganics (incl. Hg)	A (HNO3 pH<2) (1)	Site	09/19/2011 19:00		Rinsate Blank

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

USEPA Inorganics COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024797

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092111-114019-0036
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
WST-RIN05	QA/QC/ SAT/RST	Grab	TAL Inorganics (incl. Hg)	~~1612~~ DC (HNO3 pH<2) (1)	Site	09/19/2011 07:30		Rinsate Blank

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	Dad Cole	9/21/11	FedEx	9/21/11	1645						

USEPA Inorganics COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024797

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-092111-143107-0038
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
BG-S16A	Soil/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	DG C (Cool to 4 C) (1)	BG-S16	09/21/2011 08:10		Field Sample
FBS-WST44A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	FBS-WST44	09/20/2011 09:25		Field Sample
FBS-WST45A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	FBS-WST45	09/20/2011 09:35		Field Sample
FBS-WST46A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	FBS-WST46	09/20/2011 09:50		Field Sample
RMA-SW57	Surface Water/ SAT/RST	Grab	TAL Inorganics (incl. Hg)	1002 (HNO3 pH<2) (1) DG	RMA	09/20/2011 13:15		Field Sample
SCA-GW01	Ground Water/ SAT/RST	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	VW37	09/20/2011 16:41		MS/MSD
SCA-GW01F	Filtered Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	VW37	09/20/2011 16:41		MS/MSD
SCA-GW05	Ground Water/ SAT/RST	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-13D	09/21/2011 09:15		Field Sample
SCA-GW05F	Filtered Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-13D	09/21/2011 09:15		Field Sample
SCA-GW09	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-19	09/20/2011 12:30		Field Sample
SCA-GW09F	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-19	09/20/2011 12:30		Field Sample

Sample(s) to be used for Lab QC: SCA-GW01, SCA-GW01F

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

USEPA Inorganics COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024797

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-092111-143107-0038
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC DC	Station Location	Collected	Organic Sample #	Sample Type
SCA-GW10	Ground Water/ SAT/RST	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-18	09/20/2011 09:00		Field Sample
SCA-GW10F	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-18	09/20/2011 09:00		Field Sample
SCA-GW11	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-18	09/20/2011 09:05		Field Duplicate
SCA-GW11F	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-18	09/20/2011 09:05		Field Duplicate

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

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DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024797

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 3

No: 2-092111-160146-0042
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
FBS-WST43A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	FBS-WST43	09/21/2011 10:00		Field Sample
RMA-SD57	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD57	09/21/2011 10:25		Field Sample
RMA-SD58	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD58	09/21/2011 10:38		Field Sample
RMA-SD59	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD59	09/21/2011 10:55		Field Sample
RMA-SD60	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD60	09/21/2011 11:05		Field Sample
RMA-SD61	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD61	09/21/2011 11:15		Field Sample
RMA-SD62	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD62	09/21/2011 11:20		Field Sample
RMA-SD63	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD63	09/21/2011 11:30		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

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For FedEx services worldwide.

(3) DELIVERED 9/23/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/21/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address c/o Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country U.S. Virgin Islands ZIP/Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company US EPA Region 2

Address 2890 Woodbridge Ave

Address Building 209 MS-230 Dept./Floor

City Edison State/Province NJ

Country USA ZIP/Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EEI Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 3 Total Weight 185 ☒ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental samples (soil + water) FOR LAB TESTING ONLY			

Has EEI been filed in AES? *For U.S. Export Only: Check One*
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.00 USD

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☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque FedEx Use Only

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Credit Card No.

Credit Card Exp. Date

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☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

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This is not authorization to deliver this shipment without a recipient signature.

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USEPA Inorganics COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 874731026138

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092211-101644-0045
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
SCA-GW06	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	~~1020~~ (HNO3 pH<2), ~~A~~ (Cool to 4 C) (2)	G-22	09/21/2011 11:55		Field Sample
SCA-GW06F	Filtered Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg)	~~1029~~ (HNO3 pH<2) (1)	G-7	09/21/2011 11:55		Field Sample

Sample(s) to be used for Lab QC: SCA-GW06

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—		9/22/11	FedEx	9/22/11	1000						

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DELIVERED 9/23/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/22/11 — Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson — Phone 973-271-7633

Company Western Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted — State Province VI

Country USA — ZIP Postal Code 00820

2 To

Recipient's Name John Bivi — Phone 732-321-4200

Company USEPA Region 2

Address 2890 Woodbridge Ave. — Dept/Floor

Address Building 209 MS-230

City Edison — State Province NJ

Country USA — ZIP Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g. GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 — Total Weight 37 ☑ lbs. ☐ kg — DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (Water) for LAB TESTING ONLY			$200.-

Has EEI been filed in AES? *For U.S. Export Only: Check One*
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: — If other than NLR, enter License Exception:
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.- USD

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☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other plastic box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

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Credit Card Exp. Date

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FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

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DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 868315914158

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092211-102521-0046
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMB-WST22A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST22	09/19/2011 15:20		Field Sample
RMB-WST22B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST22	09/19/2011 15:22		Field Sample
RMB-WST23A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST23	09/19/2011 15:55		Field Sample
RMB-WST23B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST23	09/19/2011 17:00		Field Sample
RMB-WST23C	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST23	09/19/2011 17:10		Field Duplicate
RMB-WST28B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST28	09/19/2011 12:30		Field Sample
RMB-WST29B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST29	09/19/2011 11:35		Field Sample
RMB-WST34B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST34	09/19/2011 09:35		Field Sample
RMB-WST37A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST37	09/19/2011 08:10		Field Sample
RMB-WST37B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST37	09/19/2011 08:10		Field Sample

Special Instructions: pH is greater than 11

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/22/11	FedEx	9/22/11	1000						

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Date 09/22/2011 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company USEPA Region 2

Address 2890 Woodbridge Avenue Dept/Floor

Address Building 209 MS-230

City Edison State/Province NJ

Country USA ZIP/Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 45 ☒ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Bauxite processing mixture 100 percent cotton for LAB TESTING ONLY may contain soil			$200
COMPLETE IN ENGLISH			

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☐ No EEI/SED required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200 USD

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4b Express Freight Service *Packages over 150 lbs. / 68 kg*

☐ FedEx Intl. Priority Freight ☐ FedEx Intl. Economy Freight

Booking Number REQUIRED
Please call your local FedEx office to book shipments.

5 Packaging

*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Plastic Box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6a Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only. ☐ _____

Does this shipment contain dangerous goods? One box must be checked / ticked.

☐ No ☒ Yes As per attached Shipper's Declaration. ☒ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 _____ x _____ kg ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

6b Broker Selection

Not available with FedEx Intl. First. ☐ Intl. Broker Select To specify a broker other than FedEx.

Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:*

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department license. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract.

WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: _____

This is not authorization to deliver this shipment without a recipient signature.

FedEx Courier Receipt: Date: 09/22/11

For letter of credit shipments only.

Ship and track packages at fedex.com

FedEx Tracking Number 8683 1591 4158 Form ID No. 0425

522

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USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/13/2011
CarrierName: FedEx
AirbillNo: 873693948798

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091311-151533-0004
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B56Z1	Soil/ SAT	Bucket Auger	CLP TCL Semivolatiles/Aroclors	1167 (Cool to 4 C) (2)	BG-S01	09/12/2011 10:00		Field Sample
B56Z3	Soil/ SAT	Bucket Auger	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	BG-S05	09/12/2011 13:30		Field Sample
B56Z4	Soil/ SAT	Bucket Auger	CLP TCL Semivolatiles/Aroclors	1165 (Cool to 4 C) (1)	BG-S06	09/12/2011 13:35		Field Duplicate
B56Z5	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1169 (Cool to 4 C) (1)	ACC-SD01	09/13/2011 09:57		MS/MSD
B56Z8	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1177 (Cool to 4 C) (1)	ACC-SD07	09/13/2011 11:50		Field Sample
B56Z9	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1179 (Cool to 4 C) (1)	MAN-SD16	09/12/2011 14:35		Field Sample
B98N2	Surface Water/ SAT	Grab	BNA(14), ARO(14)	1045 (Cool to 4 C), ~~1046~~ (Cool to 4 C) (4)	MAN-SW16	09/12/2011 14:30		Field Sample
B98S9	Surface Water/ SAT	Grab	BNA(14), ARO(14)	1101 (Cool to 4 C), ~~1102~~ (Cool to 4 C) (4)	ACC-SW07	09/13/2011 11:47		Field Sample

Sample(s) to be used for Lab QC: B56Z1, B56Z5

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/13/11	FedEx	9/13/11	1645						

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/13/2011
CarrierName: FedEx
AirbillNo: 873693948798

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-091311-151747-0005
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B98S3	Surface Water/ SAT	Grab	BNA(14), ARO(14)	DC ~~1089~~ (Cool to 4 C), ~~1090~~ DC (Cool to 4 C) (8)	ACC-SW01	09/13/2011 09:52		MS/MSD

Sample(s) to be used for Lab QC: B98S3

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/13/11	FedEx	9/13/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/15/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/13/11 Sender's FedEx Account Number 108 067 691 (YOUR 9-DIGIT FEDEX ACCOUNT NUMBER ONLY)

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept./Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information ☐ For EU Only. Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 2 Total Weight 126 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (soil + water) for LAB TESTING ONLY			

Has EEI been filed in AES? (For U.S. Export Only: Check One)
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.00 USD

4 Express Package Service *Packages up to 150 lbs./68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations.
☐ _____ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling
☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.
☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/Cheque FedEx Use Only
FedEx Acct. No. 108 067 691
Credit Card No.
Credit Card Exp. Date

Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.
☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party
FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.
20405.016.013.1455.00

9 Required Signature
Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.
Sender's Signature: _____
This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

For Completion Instructions, see back of fifth page.

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FedEx Tracking Number 8736 9394 8798 Form ID No. 0402

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Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/14/2011
CarrierName: FedEx
AirbillNo: 873693948813

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091411-110922-0008
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B5716	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	DC 1179 (Cool to 4 C) (1)	BG-SD53	09/13/2011 14:25		Field Sample
B5717	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1179 (Cool to 4 C) (1)	BG-SD55	09/13/2011 14:53		Field Sample
B98R9	Surface Water/ SAT	Grab	BNA(14), ARO(14)	1081 (Cool to 4 C), 1082 (Cool to 4 C) (4) DC	BG-SW53	09/13/2011 14:22		Field Sample
B98S1	Surface Water/ SAT	Grab	BNA(14), ARO(14)	1085 (Cool to 4 C), 1086 (Cool to 4 C) (4)	BG-SW55	09/13/2011 14:47		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/14/11	FedEx	9/14/11	1645						

FedEx Express **International Air Waybill**
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DELIVERED 9/15/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/14/11 Sender's FedEx Account Number 108 067 691

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address ~~284 Sheffield~~ Ie

Address 284 Sheffield Street Dept./Floor

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EEI Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages Shipper's Load and Count/SLAC 1

Total Weight 60 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (soil + water) for LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One

☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

☐ No EEI required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.- USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations.

☐ _____ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/Cheque FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: Enter FedEx Acct. No. below. ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.003.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: Paul Lee

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

For Completion Instructions, see back of fifth page.

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Form ID No. 0402

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Questions? Go to our Web site at fedex.com.
Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/15/2011
CarrierName: FedEx
AirbillNo: 873693945170

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091411-180133-0010
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B5715	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	DC 1179 (Cool to 4 C) (1)	ADP-SD50	09/14/2011 12:51		Field Sample
B5718	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1171 (Cool to 4 C) (1)	LCP-SD31	09/14/2011 10:50		Field Sample
B98P7	Surface Water/ SAT	Grab	ARO(14), BNA(14)	1053 (Cool to 4 C), DC 1054 (Cool to 4 C) (4)	LCP-SW31	09/14/2011 10:44		Field Sample
B98R6	Surface Water/ SAT	Grab	BNA(14), ARO(14)	1078 (Cool to 4 C), 1079 (Cool to 4 C) (4)	ADP-SW50	09/14/2011 12:48		Field Sample

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: ARO=CLP TCL Aroclors, BNA=CLP TCL Semivolatiles

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/15/11	FedEx	9/15/11	1645						

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/15/2011
CarrierName: FedEx
AirbillNo: 873693945170

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-091511-152733-0015
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B5719	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1171 (Cool to 4 C) (1)	UCP-SD35	09/14/2011 17:05		Field Sample
B5720	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1171 (Cool to 4 C) (1)	RMS-SD45	09/14/2011 18:20		Field Sample
B98R1	Surface Water/ SAT	Grab	ARO(14), BNA(14)	1071 (Cool to 4 C), ~~1072~~ 0C (Cool to 4 C) (4)	RMS-SW45	09/14/2011 18:17		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ARO=CLP TCL Aroclors, BNA=CLP TCL Semivolatiles

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/15/11	FedEx	9/15/11	1645						

FedEx Express

International Air Waybill

For FedEx services worldwide.

DELIVERED 9/17/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/15/11 Sender's FedEx Account Number 108 067 691

SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street

Dept./Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information ☐ For EU Only. Tick here if goods are not in free circulation and provide C.I.

Total Packages Shipper's Load and Count/SLAC 2 Total Weight 118 ☒ lbs ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (soil + water) for LAB TESTING ONLY		USVI	$200.00

Has EEI been filed in AES? *For U.S. Export Only: Check One*
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Same Currency) $200.00 USD

4 Express Package Service *Packages up to 150 lbs./68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations.
☐ ____ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/Cheque FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on Invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature]

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

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FedEx Tracking Number 8736 9394 5170

Form ID No. 0402

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Questions? Go to our Web site at fedex.com.

Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA CLP Organics COC (REGION COPY)

DateShipped: 9/16/2011
CarrierName: FedEx
AirbillNo: 874731027546

CHAIN OF CUSTODY RECORD

St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091611-112835-0019

Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B5721	Surface Water/ SAT	Grab	ARO(14), BNA(14)	DC ~~1181~~ (Cool to 4 C), DC ~~1182~~ (Cool to 4 C) (4)	UCP-SW36	09/15/2011 16:02		Field Sample
B98L3	QA/QC/ SAT	Grab	BNA(14), ARO(14)	DC ~~1003~~ (Cool to 4 C), DC ~~1004~~ (Cool to 4 C) (4)	WST-RIN01	09/15/2011 18:25		Rinsate Blank

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ARO=CLP TCL Aroclors, BNA=CLP TCL Semivolatiles

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/16/11	FedEx	9/16/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/17/11

✓ **Sender's Copy**

1 From *Please print and press hard.*

Date 09/16/11 Sender's FedEx Account Number 108 067 691 FOR FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept./Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g. GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EEI Only: Check here if goods are not in free circulation and provide C.I.

Total Packages Shipper's Load and Count/SLAC 1

Total Weight 60 ☒ lbs ☐ kg

DIM L / W / H in. ☐ cm ☐

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (water) for LAB TESTING ONLY			

Has EEI been filed in AES? *For U.S. Export Only: Check One*
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $ 200.– USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg — *For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

☒ FedEx Intl. Priority ☐ FedEx Intl. First — Available to select locations.
☐ ☐ FedEx Intl. Economy — FedEx Envelope and FedEx Pak rate not available.

5 Packaging — *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.*

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☒ SATURDAY Delivery — Available to select locations for FedEx Intl. Priority only.

7 Payment — Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: — Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque

FedEx Acct. No. 108 067 691 — FedEx Use Only

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: — ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference — First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature]

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

For Completion Instructions, see back of fifth page.

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FedEx Tracking Number 8747 3102 7546 Form ID No. 0402

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The terms and conditions of service may vary from country to country. Consult our local office for specific information.
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Questions? Go to our Web site at fedex.com.
Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 868315994718

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 1

No: 2-091911-091117-0024
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Inorganic Sample #	Sample Type
B5724	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	RMA-WST01B	09/16/2011 10:40		Field Sample
B5725	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	RMA-WST01C	09/16/2011 10:45		Field Duplicate
B5727	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	RMA-WST06B	09/15/2011 15:45		Field Sample
B5729	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	RMA-WST12B	09/15/2011 15:00		Field Sample

Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/19/11	FedEx	9/19/11	1400						

FedEx Express

Expanded Service International Air Waybill

For FedEx services worldwide including express freight services, dangerous goods, broker select, and letter of credit.

Sender's Copy

DELIVERED 9/20/11

The World On Time.

1 From *Please print and press hard.*

Date 09/09/11 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept./Floor

Address

City Mountainside State/Province NJ

Country USA ZIP/Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 24 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Bauxite processing mixture FOR LAB TESTING ONLY			$200

DO NOT WRITE BELOW THIS LINE BEFORE INSERTING IN POUCH.

COMPLETE IN ENGLISH.

Has EEI/SED been filed in AES? For U.S. Export Only: Check One

☒ No EEI/SED required, value $2,500 or less per Schedule B Number, no license required (NLR), not subject to ITAR.

☐ No EEI/SED required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200 USD

For Completion Instructions, see back of fifth page.

Questions?
Go to our Web site at fedex.com.
or
In the U.S., call 1.800.247.4747.
Outside the U.S., call your local FedEx office.

The terms and conditions of service may vary from country to country. Consult our local office for specific information.
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Not all services and options are available to all destinations.

4a Express Package Service *Packages up to 150 lbs. / 68 kg*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations. Higher rates apply. ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

☐ _____

4b Express Freight Service *Packages over 150 lbs. / 68 kg*

☐ FedEx Intl. Priority Freight ☐ FedEx Intl. Economy Freight

Booking Number REQUIRED
Please call your local FedEx office to book shipments.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other ~~Cooler Plastic~~ Box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6a Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only. ☐ _____

Does this shipment contain dangerous goods? One box must be checked / ticked.

☐ No ☒ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 _____ x _____ kg ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

6b Broker Selection Not available with FedEx Intl. First. ☐ Intl. Broker Select To specify a broker other than FedEx.

Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/ Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:* ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department license. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract.

WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: _____
This is not authorization to deliver this shipment without a recipient signature.

FedEx Courier Receipt: Date: 09/19/11
For letter of credit shipments only.

Ship and track packages at fedex.com

FedEx Tracking Number 8683 1599 4718 Form ID No. 0425

522

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USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 874731024753

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 1

No: 2-091611-161158-0022
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B5722	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1183 (Cool to 4 C) (1)	UCP-SD36	09/15/2011 16:05		Field Sample
B5723	Waste/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1183 (Cool to 4 C) (2)	RMA-WST01A	09/16/2011 10:40		MS/MSD
B5726	Waste/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1183 (Cool to 4 C) (1)	RMA-WST06A	09/16/2011 15:45		Field Sample
B5728	Waste/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1183 (Cool to 4 C) (1)	RMA-WST12A	09/15/2011 11:20		Field Sample
B98L4	QA/QC/ SAT	Grab	BNA(14), ARO(14)	1186 (Cool to 4 C), ~~1187~~ DC (Cool to 4 C) (4)	WST-RIN02	09/16/2011 15:21		Rinsate Blank

Sample(s) to be used for Lab QC: B5723

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	Dmi/Mh	9/19/11	FedEx	9/19/11	1645						

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 874731024753

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 2

No: 2-091911-155948-0027
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B98L9	QA/QC/ SAT	Grab	VOA(14)	DC ~~4015~~ (HCl pH<2) (3)	SCA-TB01	09/19/2011 10:45		Trip Blank
B98T2	Ground Water/ SAT/RST	Grab	VOA(14)	DC ~~1111~~ (HCl pH<2) (3)	SCA-GW02	09/19/2011 11:25		Field Sample
B98T6	Ground Water/ SAT	Grab	BNA(14), ARO(14), VOA(14)	DC ~~1121~~ (Cool to 4 C), ~~1122~~ DC (Cool to 4 C), ~~1123~~ (HCl pH<2) (7) DC	SCA-GW04	09/19/2011 14:06		Field Sample
B98W2	Ground Water/ SAT	Grab	VOA(14)	DC ~~1141~~ (HCl pH<2) (3)	SCA-GW07	09/19/2011 15:51		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP TCL Volatiles, BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/19/11	FedEx	9/19/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/21/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/19/11 Sender's FedEx Account Number 108 067 691 NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept/Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 2 Total Weight 107 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental samples (soil + water) FOR LAB TESTING ONLY			

Has EEI been filed in AES? *For U.S. Export Only: Check One*
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Same Currency) 1200.- USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations.
☐ _____ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/Cheque FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature] *This is not authorization to deliver this shipment without a recipient signature.*

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Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024742

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 1

No: 2-092011-084645-0028
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B98L5	QA/QC/ SAT	Grab	VOA(14), BNA(14), ARO(14)	DC ~~1000~~ (HCl pH<2), ~~1001~~ DC (Cool to 4 C), ~~6~~ (Cool to 4 C) (7) DC	MW-RIN03	09/19/2011 19:00		Rinsate Blank
B98L7	QA/QC/ SAT/RST	Grab	BNA(14), ARO(14)	DC ~~1013~~ (Cool to 4 C), ~~1014~~ DC (Cool to 4 C) (4)	WST-RIN05	09/19/2011 07:30		Rinsate Blank
B98M0	QA/QC/ SAT	Grab	VOA(14)	DC 1017 (HCl pH<2) (3)	SCA-TB02	09/19/2011 18:00		Trip Blank
B98T4	Ground Water/ SAT	Grab	VOA(14)	1117 (HCl pH<2) (3)	SCA-GW03	09/19/2011 17:37		Field Sample
B98W4	Ground Water/ SAT/RST	Grab	VOA(14)	1143 (HCl pH<2) (3)	SCA-GW08	09/20/2011 10:22		Field Sample
B98W6	Ground Water/ SAT	Grab	VOA(14)	1145 (HCl pH<2) (3)	SCA-GW09	09/20/2011 12:30		Field Sample
B98W8	Ground Water/ SAT/RST	Grab	VOA(14)	1149 (HCl pH<2) (3)	SCA-GW10	09/20/2011 09:00		Field Sample
B98X0	Ground Water/ SAT	Grab	VOA(14)	1153 (HCl pH<2) (3)	SCA-GW11	09/20/2011 09:05		Field Duplicate

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP TCL Volatiles, BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
———	[signature]	9/20/11	FedEx	9/20/11	1645						

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024742

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 2

No: 2-092011-154832-0033
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B4A18	Surface Water/ SAT/RST	Grab	BNA(14), ARO(14)	~~1188~~ (Cool to 4 C), ~~1189~~ (Cool to 4 C) (4) DC DC	RMA-SW57	09/20/2011 13:15		Field Sample
B98W8	Ground Water/ SAT/RST	Grab	BNA(14), ARO(14)	~~1147~~ (Cool to 4 C), ~~1148~~ (Cool to 4 C) (4) DC DC	SCA-GW10	09/20/2011 09:00		Field Sample
B98X0	Ground Water/ SAT	Grab	ARO(14), BNA(14)	~~1155~~ (Cool to 4 C), ~~1156~~ (Cool to 4 C) (4) DC DC	SCA-GW11	09/20/2011 09:05		Field Duplicate

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	Dmitch	9/20/11	FedEx	9/20/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/22/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/20/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept./Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 2 Total Weight 145 [X] lbs. [ ] kg DIM L / W / H [ ] in. [ ] cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (water) FOR LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One
[ ] No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
[ ] No EEI required, enter exemption number:
[ ] Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200 – USD

4 Express Package Service *Packages up to 150 lbs. / 68 kg*
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

[X] FedEx Intl. Priority [ ] FedEx Intl. First (Available to select locations.)
[ ] [ ] FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

[ ] FedEx Envelope [ ] FedEx Pak [ ] FedEx Box [ ] FedEx Tube
[X] Other Cooler [ ] FedEx 10kg Box* [ ] FedEx 25kg Box*

6 Special Handling

[ ] HOLD at FedEx Location [ ] SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only.)

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

[ ] Sender (Acct. No. in Section 1 will be billed.) [ ] Recipient [X] Third Party [ ] Credit Card [ ] Cash/Check/Cheque

FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

[ ] Sender (Acct. No. in Section 1 will be billed.) [ ] Recipient [X] Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature:

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

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FedEx Tracking Number 8747 3102 4742 Form ID No. 0402

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Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024786

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 1

No: 2-092111-105601-0035
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B98M1	QA/QC/ SAT	Grab	VOA(14)	DC 1018 (HCl pH<2) (3)	SCA-TB03	09/20/2011 18:10		Trip Blank
B98T0	Ground Water/ SAT/RST	Bladder Pump	BNA(14), ARO(14)	1103 (Cool to 4 C), ~~1104~~ DC (Cool to 4 C) (8)	SCA-GW01	09/20/2011 16:41		MS/MSD
B98T8	Ground Water/ SAT/RST	Bladder Pump	VOA(14)	1119 (HCl pH<2) (3)	SCA-GW05	09/21/2011 09:15		Field Sample

Sample(s) to be used for Lab QC: B98T0

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP TCL Volatiles, BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024786

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 2

No: 2-092111-154225-0041
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles QC	Station Location	Collected	Inorganic Sample #	Sample Type
B4A13	Waste/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	RMB-WST36A	09/19/2011 09:20		Field Sample
B4A15	Waste/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	C (Cool to 4 C) (2)	ADP-WST42A	09/19/2011 10:35		MS/MSD
B4A16	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	ADP-WST41B	09/19/2011 10:15		Field Sample
B4A17	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	ADP-WST41C	09/19/2011 10:20		Field ~~Sample~~ Duplicate
B4A20	Soil/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1194 (Cool to 4 C) (1)	BG-S16A	09/21/2011 08:10		Field Sample
B4A21	Sediment/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1171 (Cool to 4 C) (1)	RMA-SD57	09/21/2011 10:25		Field Sample
B4A22	Sediment/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1171 (Cool to 4 C) (1)	RMA-SD59	09/21/2011 10:55		Field Sample
B4A23	Sediment/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	F (Cool to 4 C) (1)	RMA-SD62	09/21/2011 11:20		Field Sample
B4A24	Sediment/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	F (Cool to 4 C) (1)	RMA-SD63	09/21/2011 11:30		Field Sample
B4A25	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	C (Cool to 4 C) (1)	ADP-WST42B	09/19/2011 10:35		Field Sample

Sample(s) to be used for Lab QC: B4A15

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	David Ch	9/21/11	FedEx	9/21/11	1645						

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1 From *Please print and press hard.*

Date 09/21/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept/Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

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Total Packages (Shipper's Load and Count/SLAC) 2 Total Weight 110 ☒ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (water) FOR LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: If other than NLR, enter License Exception:
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Total Value for Customs (Specify Currency) $200.00 USD

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USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 868315994751

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 1

No: 2-092111-151619-0039
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B98M2	QA/QC/ SAT	Grab	VOA(14)	DC ~~1019~~ (HCl pH<2) (3)	SCA-TB04	09/21/2011 15:15		Trip Blank
B98W0	Ground Water/ SAT	Bladder Pump	BNA(14), VOA(14)	DC ~~1139~~ (Cool to 4 C), ~~1135~~ DC (HCl pH<2) (7)	SCA-GW06	09/21/2011 11:55		Field Sample

Sample(s) to be used for Lab QC: B98W0 - Special Instructions: pH is greater than 11

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP TCL Volatiles, BNA=CLP TCL Semivolatiles

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/22/11	FedEx	9/22/11	1000						

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 868315994751

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 2

No: 2-092111-152631-0040
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles 06	Station Location	Collected	Inorganic Sample #	Sample Type
B98W0	Ground Water/ SAT	Bladder Pump	ARO(14)	~~1134~~ (Cool to 4 C) (4)	SCA-GW06	09/21/2011 11:55		Field Sample

Sample(s) to be used for Lab QC: B98W0 - Special Instructions: pH is greater than 11

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	David Cole	9/22/11	FedEx	9/22/11	1000						

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9/23/11
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1 From

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Sender's Name Dan Carlson Phone 973-271-7633

Company Nestor Solutions, Inc.

Address Tamarind Beef Hotel

Address 5001 Tamarind Beef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield street Dept./Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages (Shipper's Load and Count/SLAC) 2

Total Weight 44 ☒ lbs. ☐ kg

DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
~~Example: 1-man's knitted sweater~~ ~~Environmental Samples (water) for lab testing only~~ Soil			$200
Corrosive liquid, basic, organic, n.o.s. (bauxite processing mixture)			

HERE BEFORE INSERTING IN POUCH.

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Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200 USD

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Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

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USEPA NAREL COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 874731024731

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-091711-140743-0023
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST01A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST01	09/16/2011 10:40		MS/MSD
RMA-WST02A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST02	09/15/2011 08:10		Field Sample
RMA-WST03A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST03	09/15/2011 10:30		Field Sample
RMA-WST04A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST04	09/15/2011 10:55		Field Sample
RMA-WST06A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST06	09/16/2011 15:45		Field Sample
RMA-WST07A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST07	09/16/2011 09:50		Field Sample
RMA-WST09A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST09	09/16/2011 09:15		Field Sample
RMA-WST09B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST09	09/16/2011 09:15		Field Sample
RMA-WST11A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST11	09/16/2011 11:20		Field Sample
RMA-WST12A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST12	09/15/2011 11:20		Field Sample
RMA-WST14A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST14	09/16/2011 14:50		Field Sample

Sample(s) to be used for Lab QC: RMA-WST01A

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/19/11	FedEx	9/19/11	1645						

USEPA NAREL COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 874731024731

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-091711-140743-0023
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST14B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST14	09/16/2011 14:50		Field Sample
RMA-WST15A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST15	09/16/2011 14:35		Field Sample
RMA-WST16A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST16	09/16/2011 14:15		Field Sample
RMA-WST16B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST16	09/16/2011 14:15		Field Sample
RMA-WST17A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST17	09/16/2011 14:00		Field Sample
RMA-WST17B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST17	09/16/2011 14:00		Field Sample
RMA-WST18A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST18	09/15/2011 17:00		Field Sample
RMA-WST19A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST19	09/16/2011 09:00		Field Sample
RMA-WST20A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST20	09/15/2011 16:35		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
———	[signature]	9/19/11	FedEx	9/19/11	1645						

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Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Cindy White Phone 334-270-7052

Company USEPA / NAREL

Address 540 S. Morris Avenue Dept./Floor

Address

City Montgomery State Province AL

Country USA ZIP Postal Code 36115

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3 Shipment Information

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Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 61 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Bauxite processing mixture FOR LAB TESTING ONLY			

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☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: If other than NLR, enter License Exception:
☐ Yes – Enter AES proof of filing citation:

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5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.*

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Sender's Signature: [signature]

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DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024764

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092011-130824-0030
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
ADP-WST41A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	ADP-WST41	09/19/2011 10:15		Field Sample
ADP-WST41B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	ADP-WST41	09/19/2011 10:15		Field Sample
ADP-WST41C	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	ADP-WST41	09/19/2011 10:20		Field ~~Sample~~ DC Duplicate
ADP-WST42A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	ADP-WST42	09/19/2011 10:35		MS/MSD
ADP-WST42B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	ADP-WST42	09/19/2011 10:35		Field Sample
FBS-WST44A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	FBS-WST44	09/20/2011 09:25		Field Sample
FBS-WST45A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	FBS-WST45	09/20/2011 09:35		Field Sample
FBS-WST46A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	FBS-WST46	09/20/2011 09:50		Field Sample
RMB-WST24A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST24	09/19/2011 17:40		Field Sample
RMB-WST28A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST28	09/19/2011 12:30		Field Sample
RMB-WST29A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST29	09/19/2011 11:35		Field Sample

Sample(s) to be used for Lab QC: ADP-WST42A

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/20/11	FedEx	9/20/11	1645						

USEPA NAREL COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024764

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092011-130824-0030
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMB-WST30A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST30	09/19/2011 12:10		Field Sample
RMB-WST30B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST30	09/19/2011 12:10		MS/MSD
RMB-WST32A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST32	09/19/2011 12:45		Field Sample
RMB-WST34A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST34	09/19/2011 09:35		Field Sample
RMB-WST36A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST36	09/19/2011 09:20		Field Sample
RMB-WST38A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST38	09/19/2011 08:35		Field Sample
RMB-WST39A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST39	09/19/2011 08:00		Field Sample
RMB-WST39B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST39	09/19/2011 08:00		Field Sample
RMB-WST40A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST40	09/19/2011 12:00		Field Sample

Sample(s) to be used for Lab QC: RMB-WST30B

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/20/11	FedEx	9/20/11	1645						

FedEx Express — International Air Waybill

For FedEx services worldwide.

DELIVERRA 9/22/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/20/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Cindy White Phone 334-270-7052

Company USEPA/NAREL

Address 540 S. Morris Avenue Dept./Floor

Address

City Montgomery State Province AL

Country USA ZIP Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 60 ☒ lbs ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Bauxite processing mixture FOR LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One
☒ No EEI required, value $2,500 or less per Sch. B Number, or license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.00 USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First (Available to select locations.)
☐ _____ ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

5 Packaging

*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other ~~Cooler~~ Plastic Box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

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7 Payment

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Enter FedEx Acct. No. or Credit Card No. below.
☐ Sender (Acct. No. in Section 1 will be billed.) ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Cheque (FedEx Use Only)

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to:
ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.
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☐ Sender (Acct. No. in Section 1 will be billed.) ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

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20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature]

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

568

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For Completion Instructions, see back of fifth page.

FedEx Tracking Number 8747 3102 4764 Form ID No. 0402

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USEPA NAREL COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 868315994740

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092111-103224-0034
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST01B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (2)	RMA-WST01	09/16/2011 10:40		Field Sample
RMA-WST01C	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (2)	RMA-WST01	09/16/2011 10:45		Field Duplicate
RMA-WST03B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (2)	RMA-WST03	09/15/2011 14:30		Field Sample
RMA-WST10B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (2)	RMA-WST10	09/16/2011 11:05		MS/MSD
RMA-WST12B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (2)	RMA-WST12	09/15/2011 15:00		Field Sample

Sample(s) to be used for Lab QC: RMA-WST10B - Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1400						

Express

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DELIVERED 9/22/11

The World On Time.

Not all services and options are available to all destinations.

1 From *Please print and press hard.*

Date 09/21/11 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name Cindy White Phone 334-270-7052

Company USEPA/NAREL

Address 540 S. Morris Avenue Dept./Floor

Address

City Montgomery State/Province AL

Country USA ZIP/Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 22 ☒ lbs. ☐ kg DIM ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Bauxite processing mixture FOR LAB TESTING ONLY		USVI	$200-

FOLD HERE BEFORE INSERTING IN POUCH

COMPLETE IN ENGLISH.

Has EEI/SED been filed in AES? For U.S. Export Only: Check One

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200- USD

☒ No EEI/SED required, value $2,500 or less per Schedule B Number, no license required (NLR), not subject to ITAR.

If other than NLR, enter License Exception:

☐ No EEI/SED required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

4a Express Package Service *Packages up to 150 lbs. / 68 kg*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations. Higher rates apply. ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

☐

4b Express Freight Service *Packages over 150 lbs. / 68 kg*

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☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Plastic Box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6a Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only. ☐

Does this shipment contain dangerous goods? One box must be checked / ticked.

☐ No ☒ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

6b Broker Selection Not available with FedEx Intl. First. ☐ Intl. Broker Select To specify a broker other than FedEx.

Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/ Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:* ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

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☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

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USEPA NAREL COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024801

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092111-130009-0037
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
ADP-SD49	Sediment/ SAT	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	ADP-SW49	09/14/2011 12:07		Field Sample
BG-S01	Soil/ SAT	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (Cool to 4 C) (1)	BG-S01	09/12/2011 10:00		Field Sample
BG-S07	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S07	09/20/2011 16:50		Field Sample
BG-S08	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S08	09/20/2011 17:00		Field Sample
BG-S09	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S09	09/20/2011 17:10		Field Sample
BG-S10	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S10	09/20/2011 17:15		Field Sample
BG-S11	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S11	09/20/2011 17:20		Field Sample
BG-S12	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S12	09/20/2011 17:25		Field Sample
BG-S13	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S13	09/20/2011 17:30		Field Sample
BG-S14	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S14	09/20/2011 17:40		Field Sample
BG-S15	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S15	09/20/2011 17:45		Field Sample

Sample(s) to be used for Lab QC: BG-S01

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

USEPA NAREL COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024801

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092111-130009-0037
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
BG-S16A	Soil/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S16	09/21/2011 08:10		Field Sample
LCP-SD33	Sediment/ SAT	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	LCP-SW33	09/14/2011 12:05		Field Sample
RMA-WST13A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST13	09/15/2011 13:16		Field Sample
RMA-WST13B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST13	09/15/2011 16:15		Field Sample
RMA-WST20B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST20	09/15/2011 16:40		Field Sample
RMA-WSTR01A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WSTR01	09/21/2011 09:00		Field Sample
RMA-WSTR02A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST02	09/21/2011 09:15		Field Sample
RMS-SD45	Sediment/ SAT	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMS-SW45	09/14/2011 18:20		Field Sample
UCP-SD35	Sediment/ SAT	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	UCP-SW35	09/14/2011 17:05		Field Sample
UCP-SD37	Sediment/ SAT	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	UCP-SW37	09/14/2011 17:43		Field Sample
UCP-SD39	Sediment/ SAT	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	UCP-SW39	09/14/2011 17:25		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

FedEx Express — International Air Waybill

For FedEx services worldwide.

DELIVERED 9/23/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/21/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Cindy White Phone 334-270-7052

Company USEPA/NAREL

Address 540 S. Morris Avenue Dept./Floor

Address

City Montgomery State Province AL

Country USA ZIP Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1

Total Weight 2 lbs. kg DIM L / W / H in. cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
B Environmental Samples (soil) FOR LAB PROCESSING ONLY			

Has EEI been filed in AES? *For U.S. Export Only: Check One*

- No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
- No EEI required, enter exemption number:
- Yes – Enter AES proof of filing citation:

If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Same as Commercial Invoice) $200.00 USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

- [x] FedEx Intl. Priority
- [ ] FedEx Intl. First — Available to select locations.
- [ ] _____
- [ ] FedEx Intl. Economy — FedEx Envelope and FedEx Pak rate not available.

5 Packaging

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- [ ] FedEx Pak
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other Cooler
- [ ] FedEx 10kg Box*
- [ ] FedEx 25kg Box*

6 Special Handling

- [ ] HOLD at FedEx Location
- [ ] SATURDAY Delivery — Available to select locations for FedEx Intl. Priority only.

7 Payment

Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to:

Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [x] Third Party
- [ ] Credit Card
- [ ] Cash/Cheque — FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to:

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

- [ ] Sender Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [x] Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: David Clark

This is not authorization to deliver this shipment without a recipient signature.

For Completion Instructions, see back of fifth page.

568

PART 158410•Rev. Date 11/08
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FedEx Tracking Number 8747 3102 4801

Form ID No. 0402

Ship and track packages at fedex.com

The terms and conditions of service may vary from country to country. Consult our local office for specific information.
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Questions? Go to our Web site at fedex.com.

Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

USEPA NAREL COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 868315994730

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092011-124541-0029
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST02B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST02	09/15/2011 11:35		Field Sample
RMA-WST04B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST04	09/15/2011 14:51		Field Sample
RMA-WST05A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST05	09/15/2011 15:30		Field Sample
RMA-WST05B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST05	09/15/2011 15:22		Field Sample
RMA-WST06B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST06	09/15/2011 15:45		Field Sample
RMA-WST07B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST07	09/16/2011 09:50		Field Sample
RMA-WST08A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST08	09/16/2011 09:35		Field Sample
RMA-WST10A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST10	09/16/2011 11:00		Field Sample
RMA-WST11B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST11	09/16/2011 11:20		Field Sample
RMA-WST11C	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST11	09/16/2011 11:25		Field Duplicate

Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	0930						

Revised COC 9/28/11 DC

USEPA NAREL COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 868315994730

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092011-124541-0029
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST02B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST02	09/15/2011 11:35		Field Sample
RMA-WST04B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST04	09/15/2011 14:51		Field Sample
RMA-WST05A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST05	09/15/2011 15:30		Field Sample
RMA-WST05B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST05	09/15/2011 15:22		Field Sample
RMA-WST06B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST06	09/15/2011 15:45		Field Sample
RMA-WST07B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST07	09/16/2011 09:50		Field Sample
RMA-WST08A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST08	09/16/2011 09:35		Field Sample
RMA-WST10A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST10	09/16/2011 11:00		Field Sample
RMA-WST11B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST11	09/16/2011 11:20		Field Sample
RMA-WST11C	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST11	09/16/2011 11:25		Field Duplicate
RMA-WST19B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST19	09/16/2011 09:00		Field Sample

Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	0930						

USEPA NAREL COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 868315994730

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 2

No: 2-092011-133530-0031
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMB-WST22A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST22	09/19/2011 15:20		Field Sample
RMB-WST22B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST22	09/19/2011 15:22		Field Sample
RMB-WST23A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST23	09/19/2011 15:55		Field Sample
RMB-WST23B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST23	09/19/2011 17:00		Field Sample
RMB-WST23C	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST23	09/19/2011 17:10		Field Duplicate
RMB-WST28B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST28	09/19/2011 12:30		Field Sample
RMB-WST29B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST29	09/19/2011 11:35		Field Sample
RMB-WST34B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST34	09/19/2011 09:35		Field Sample
RMB-WST37A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST37	09/19/2011 08:10		Field Sample
RMB-WST37B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST37	09/19/2011 08:10		Field Sample

Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	0930						

FedEx Express

Expanded Service International Air Waybill

For FedEx services worldwide including express freight services, dangerous goods, broker select, and letter of credit.

Sender's Copy

DELIVERED 9/23/11

The World On Time.

1 From *Please print and press hard.*

Date ~~09/20/11~~ 09/21/11 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name Cindy White Phone 334-270-7052

Company USEPA/NAREL

Address 540 S. Morris Avenue Dept/Floor

Address

City Montgomery State/Province AL

Country USA ZIP/Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages (Shipper's Load and Count/SLAC) 2 Total Weight 60 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Example: 1 man's knitted sweater, 100% cotton			
Bauxite Processing Mixture FOR LAB TESTING ONLY		USVI	$200-

FOLD HERE BEFORE INSERTING IN POUCH.

Has EEI/SED been filed in AES? *For U.S. Export Only: Check One*

☒ No EEI/SED required, value $2,500 or less per Schedule B Number, no license required (NLR), not subject to ITAR.

☐ No EEI/SED required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200- USD

For Completion Instructions, see back of fifth page.

Questions?
Go to our Web site at fedex.com.
or
In the U.S., call 1.800.247.4747.
Outside the U.S., call your local FedEx office.

The terms and conditions of service may vary from country to country. Consult our local office for specific information.
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Not all services and options are available to all destinations.

4a Express Package Service *Packages up to 150 lbs. / 68 kg*

☒ FedEx Intl. Priority ☐ FedEx Intl. First (Available to select locations. Higher rates apply.) ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

☐ _____

4b Express Freight Service *Packages over 150 lbs. / 68 kg*

☐ FedEx Intl. Priority Freight ☐ FedEx Intl. Economy Freight

Booking Number REQUIRED
Please call your local FedEx office to book shipments.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Plastic Box (2) ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6a Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only.) ☐ _____

Does this shipment contain dangerous goods? One box must be checked / ticked.

☐ No ☒ Yes (As per attached Shipper's Declaration.) ☐ Yes (Shipper's Declaration not required.)

☐ Dry Ice (Dry ice, 9, UN 1845 _____ x _____ kg) ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

6b Broker Selection (Not available with FedEx Intl. First.) ☐ Intl. Broker Select (To specify a broker other than FedEx.)

Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender (Acct. No. in Section 1 will be billed.) ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:* ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender (Acct. No. in Section 1 will be billed.) ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department license. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract.

WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: Dan Carlson

This is not authorization to deliver this shipment without a recipient signature.

FedEx Courier Receipt: Date: ~~09/20/11~~ 09/21/11

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Ship and track packages at fedex.com

FedEx Tracking Number 8683 1599 4730 Form ID No. 0425

522

PART 158412 • Rev. Date 4/06
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USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 868315914147

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092211-085743-0044
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST06B(2)	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST06	09/15/2011 15:45		Field Sample
RMA-WST08B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (2)	RMA-WST08	09/16/2011 09:35		Field Sample
RMA-WST18B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST18	09/15/2011 17:00		Field Sample

Special Instructions: pH is greater than 11. RMA-WST06B(2) is the second bottle for RAD analysis from sample RMA-WST06B. The first bottle was sent on 9/21/11 under chain of custidy # 2-092011-124541-0029.

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	David Lah	9/22/11	FedEx	9/22/11	1000						

FedEx Express

Expanded Service International Air Waybill

For FedEx services worldwide including express freight services, dangerous goods, broker select, and letter of credit.

Sender's Copy

MEMPHIS DELIVERED 9/27/11

1 From *Please print and press hard.*

Date 09/22/11 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Cindy White Phone 334-270-7052

Company USEPA/NAREL

Address 540 So. Main Street Dept./Floor

Address

City Montgomery State Province AL

Country USA ZIP Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages Shipper's Load and Count/SLAC 1 Total Weight 44 ☒ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Bauxite Processing Sample Material for LAB TESTING ONLY		USVI	$200.-
May contain soil			
COMPLETE IN ENGLISH.			

FOLD HERE BEFORE INSERTING IN POUCH.

Has EEI/SED been filed in AES? *For U.S. Export Only: Check One*

☒ No EEI/SED required, value $2,500 or less per Schedule B Number, no license required (NLR), not subject to ITAR.

☐ No EEI/SED required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200.- USD

For Completion Instructions, see back of fifth page.

Questions?
Go to our Web site at fedex.com.
or
In the U.S., call 1.800.247.4747.
Outside the U.S., call your local FedEx office.

The terms and conditions of service may vary from country to country. Consult our local office for specific information.
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The World On Time.

Not all services and options are available to all destinations.

4a Express Package Service *Packages up to 150 lbs. / 68 kg*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations. Higher rates apply. ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

☐ ___

4b Express Freight Service *Packages over 150 lbs. / 68 kg*

☐ FedEx Intl. Priority Freight ☐ FedEx Intl. Economy Freight

Booking Number REQUIRED
Please call your local FedEx office to book shipments.

5 Packaging

*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Plastic Box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6a Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only. ☐ ___

Does this shipment contain dangerous goods? One box must be checked / ticked.

☐ No ☒ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry ice, 9, UN 1845 ___ x ___ kg ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

6b Broker Selection

Not available with FedEx Intl. First. ☐ Intl. Broker Select To specify a broker other than FedEx.

Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash Check/ Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:*

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department license. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract.

WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature:

This is not authorization to deliver this shipment without a recipient signature.

FedEx Courier Receipt: Date: 9/22/11

For letter of credit shipments only.

Ship and track packages at fedex.com

FedEx Tracking Number 8683 1591 4147 Form ID No. 0425

522

PART 158412 • Rev. Date 4/06
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USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 874731026116

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092211-083246-0043
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
FBS-WST43A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	FBS-WST43	09/21/2011 10:00		Field Sample
RMA-SD57	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD57	09/21/2011 10:25		Field Sample
RMA-SD58	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD58	09/21/2011 10:38		Field Sample
RMA-SD59	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD59	09/21/2011 10:55		Field Sample
RMA-SD60	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD60	09/21/2011 11:05		Field Sample
RMA-SD61	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD61	09/21/2011 11:15		Field Sample
RMA-SD62	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD62	09/21/2011 11:20		Field Sample
RMA-SD63	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD63	09/21/2011 11:30		Field Sample

Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	Dan Lahr	9/22/11	FedEx	9/22/11	1000						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/26/11
~~MEMPHIS~~ ~~CLEAR~~

Sender's Copy

1 From *Please print and press hard.*

Date 09/22/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Cindy White Phone

Company USEPA NAREL

Address 540 S. Morris Avenue Dept/Floor

Address

City Montgomery State Province AL

Country USA ZIP Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EU Duty: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1

Total Weight 34 lbs. ☐ kg ☐ DIM L / W / H in. ☐ cm ☐

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Battery packaging material for LAB TESTING ONLY may contain soil			$200-

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage
If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200- USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expended Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations.
☐ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging

These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment

Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to:
Enter FedEx Acct. No. or Credit Card No. below.
☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque
FedEx Acct. No. 108 067 691 FedEx Use Only
Credit Card No.
Credit Card Exp. Date

Bill duties and taxes to:
ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.
Enter FedEx Acct. No. below.
☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party
FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.
20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: Paul Wagner

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

568

PART 158410•Rev. Date 11/08
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For Completion Instructions, see back of fifth page.

FedEx Tracking Number 8747 3102 6116 Form ID No. 0402

Ship and track packages at fedex.com

The terms and conditions of service may vary from country to country. Consult our local office for specific information.
Non-Negotiable International Air Waybill • ©1994–2008 FedEx

Questions? Go to our Web site at fedex.com.
Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 865869642224

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092211-112105-0047
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
RMA-SW57	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	A (None) (1)	RMA	09/20/2011 13:15		Field Sample
RMS-SW45	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	RMS-SW45	09/14/2011 18:17		Field Sample
SCA-GW01	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	VW37	09/20/2011 16:41		MS/MSD
SW-RMA-WST12	Water/ RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	A (None) (1)	RMA-WST12	09/15/2011 15:00		Field Sample
UCP-SW35	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	UCP-SW35	09/14/2011 17:00		Field Sample
UCP-SW39	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	UCP-SW39	09/14/2011 17:20		Field Sample

Sample(s) to be used for Lab QC: SCA-GW01

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/22/11	FedEx	9/22/11	1300						

Revised COC 9/28/11 DC

USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 865869642224

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092211-112105-0047
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-SW57	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	A (HNO3 pH<2) (1)	RMA	09/20/2011 13:15		Field Sample
RMS-SW45	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	RMS-SW45	09/14/2011 18:17		Field Sample
SCA-GW01	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	VW37	09/20/2011 16:41		MS/MSD
SW-RMA-WST12	Water/ RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	A (HNO3 pH<2) (1)	RMA-WST12	09/15/2011 15:00		Field Sample
UCP-SW35	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	UCP-SW35	09/14/2011 17:00		Field Sample
UCP-SW39	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	UCP-SW39	09/14/2011 17:20		Field Sample

Sample(s) to be used for Lab QC: SCA-GW01

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	Dan Cohn	9/22/11	FedEx	9/22/11	1300						

USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 865869642224

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 2

No: 2-092211-115537-0048
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
SCA-GW05	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	GM-13D	09/21/2011 09:15		Field Sample
SCA-GW06	Ground Water/ SAT	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	G-22	09/21/2011 11:55		Field Sample
SCA-GW08	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	GM-14	09/20/2011 10:22		Field Sample
SCA-GW10	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	GM-18	09/20/2011 09:00		Field Sample
WST-RIN01	QA/QC/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	A (None) (1)	Site	09/15/2011 18:25		Rinsate Blank

Sample(s) to be used for Lab QC: SCA-GW06

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	David Cohen	9/22/11	FedEx	9/22/11	1300						

Revised COC 9/28/11 DC

USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 865869642224

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 2

No: 2-092211-115537-0048
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
SCA-GW05	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	GM-13D	09/21/2011 09:15		Field Sample
SCA-GW06	Ground Water/ SAT	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	GM-22	09/21/2011 11:55		Field Sample
SCA-GW08	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	GM-14	09/20/2011 10:22		Field Sample
SCA-GW10	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	GM-18	09/20/2011 09:00		Field Sample
WST-RIN01	QA/QC/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	A (HNO3 pH<2) (1)	Site	09/15/2011 18:25		Rinsate Blank

Sample(s) to be used for Lab QC: SCA-GW06

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/22/11	FedEx	9/22/11	1300						

USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 865869642224

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 3

No: 2-092211-120450-0049
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
SCA-GW02	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	G-9	09/19/2011 11:25		Field Sample
SCA-GW07	Ground Water/ SAT	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	VW25	09/19/2011 15:51		Field Sample

Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/22/11	FedEx	9/22/11	1300						

Revised COC 9/28/11 DC

USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 865869642224

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 3

No: 2-092211-120450-0049
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
SCA-GW02	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	G-9	09/19/2011 11:25		Field Sample
SCA-GW07	Ground Water/ SAT	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	VW25	09/19/2011 15:51		Field Sample

Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	Paul Wh	9/22/11	FedEx	9/22/11	1300						

FedEx Express International Air Waybill

For FedEx services worldwide.

DELIVERED 9/23/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/22/11 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To Recipient's Name Cindy White Phone 334-270-7052

Company USEPA / NAREL

Address 540 S. Morris Avenue Dept./Floor

Address

City Montgomery State/Province AL

Country USA ZIP/Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 3 Total Weight 15 ☒ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Environmental samples (water) FOR LAB TESTING ONLY			$200
COMPLETE IN ENGLISH.			

Has EEI/SED been filed in AES? For U.S. Export Only: Check One

☐ No EEI/SED required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

☐ No EEI/SED required, enter exemption number:

☐ Yes — Enter AES proof of filing citation:

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200 USD

4 Express Package Service *Packages up to 150 lbs. / 68 kg*

For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations. Higher rates apply.

☐ ___ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:* All shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20401.135.024.5068

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: Dan Carlson

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

521

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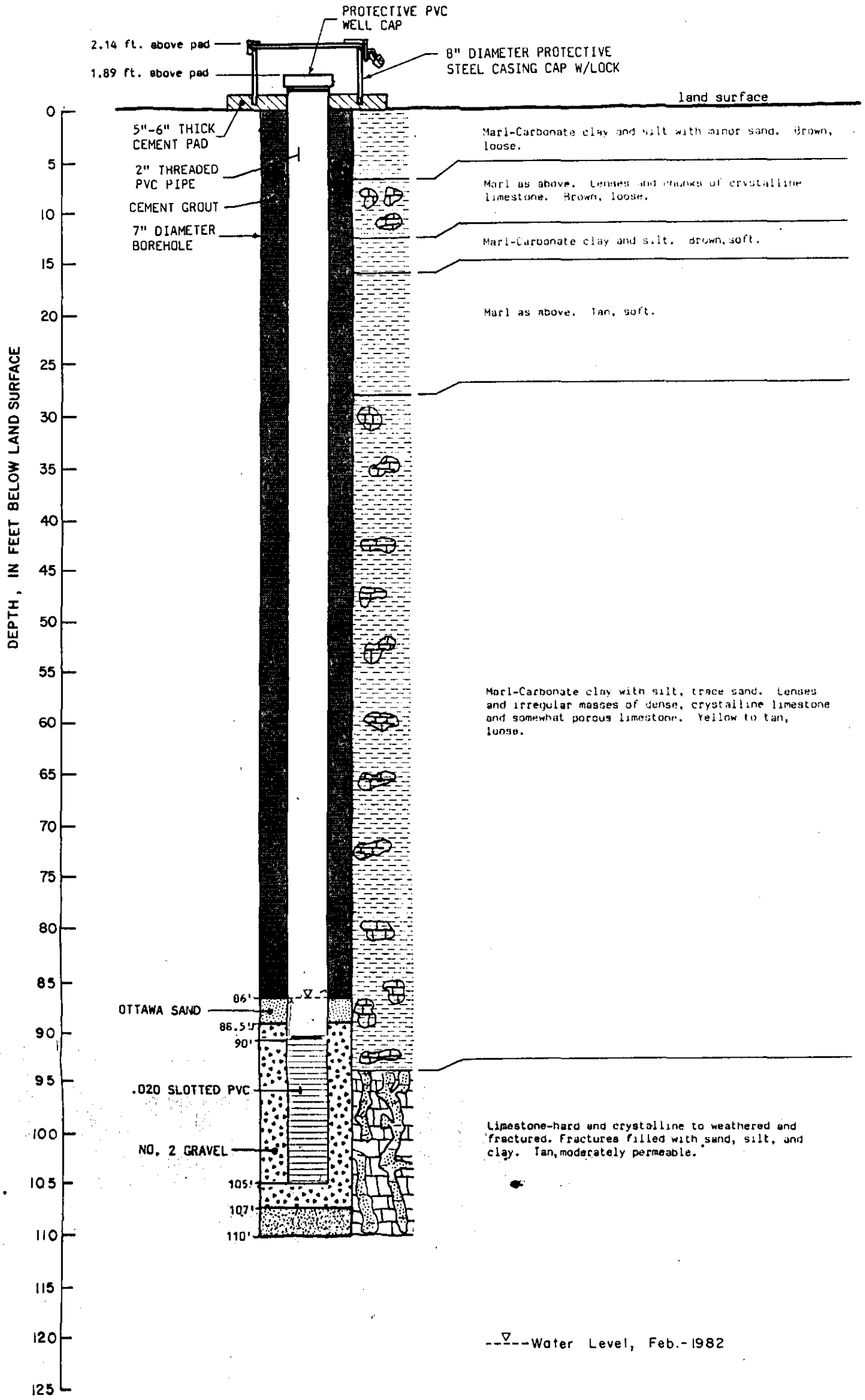
For Completion Instructions, see back of fifth page.

FedEx Tracking Number 8658 6964 2224 Form ID No. 0402

Ship and track packages at fedex.com

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Or in the U.S., call 1.800.247.4747. Outside the U.S., call your local FedEx office.

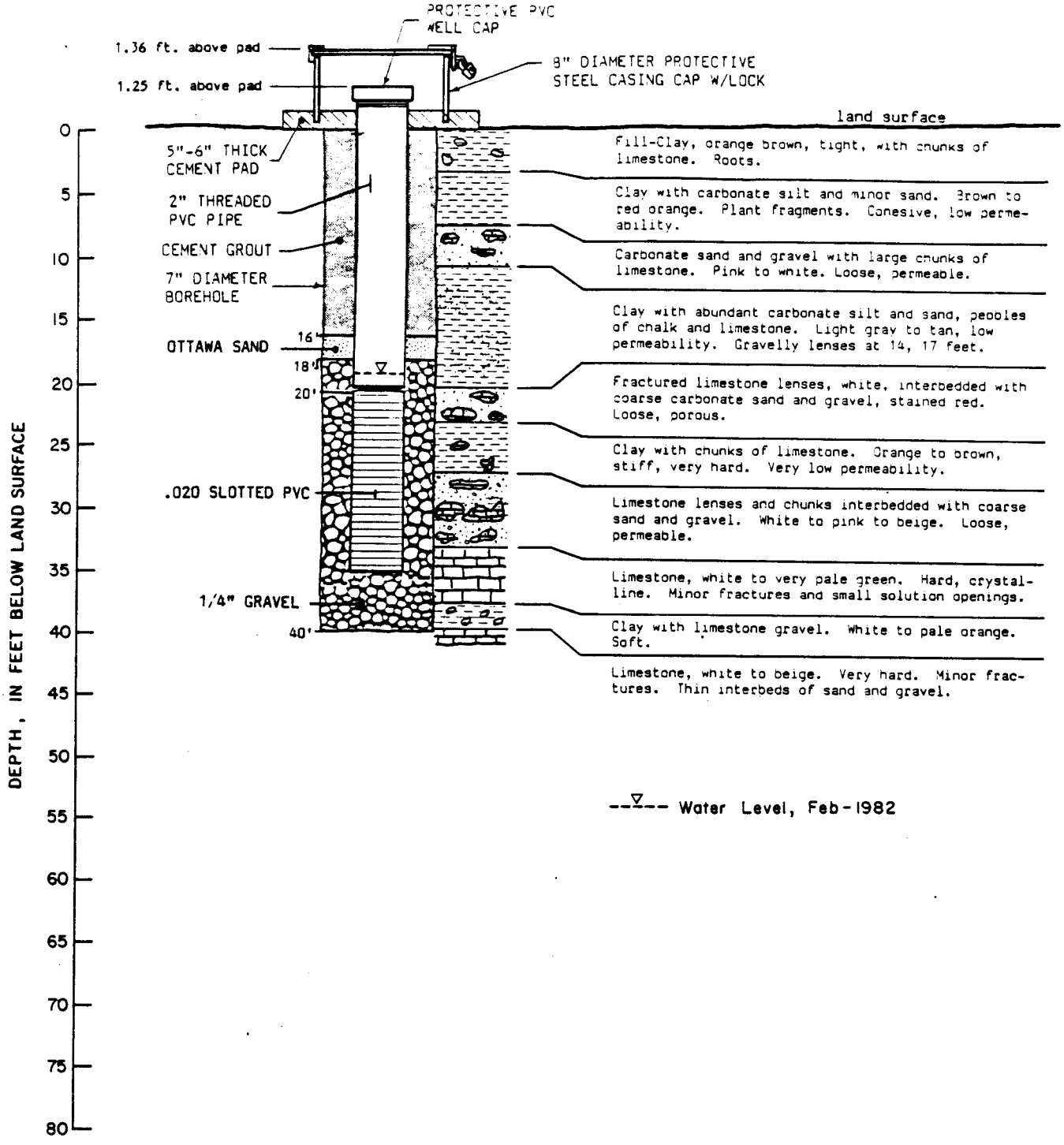


CONSTRUCTION DIAGRAM AND GEOLOGIC LOG OF MONITORING WELL G-1

PREPARED FOR

MARTIN MARIETTA ALUMINA
St. Croix, U.S. Virgin Islands

Geraghty & Miller, Inc.	D. NACHMAN	SCALE: SHOWN	FIGURE: A-1
	R. PADULA	DATE: 4-1982	
	W. BOIS		



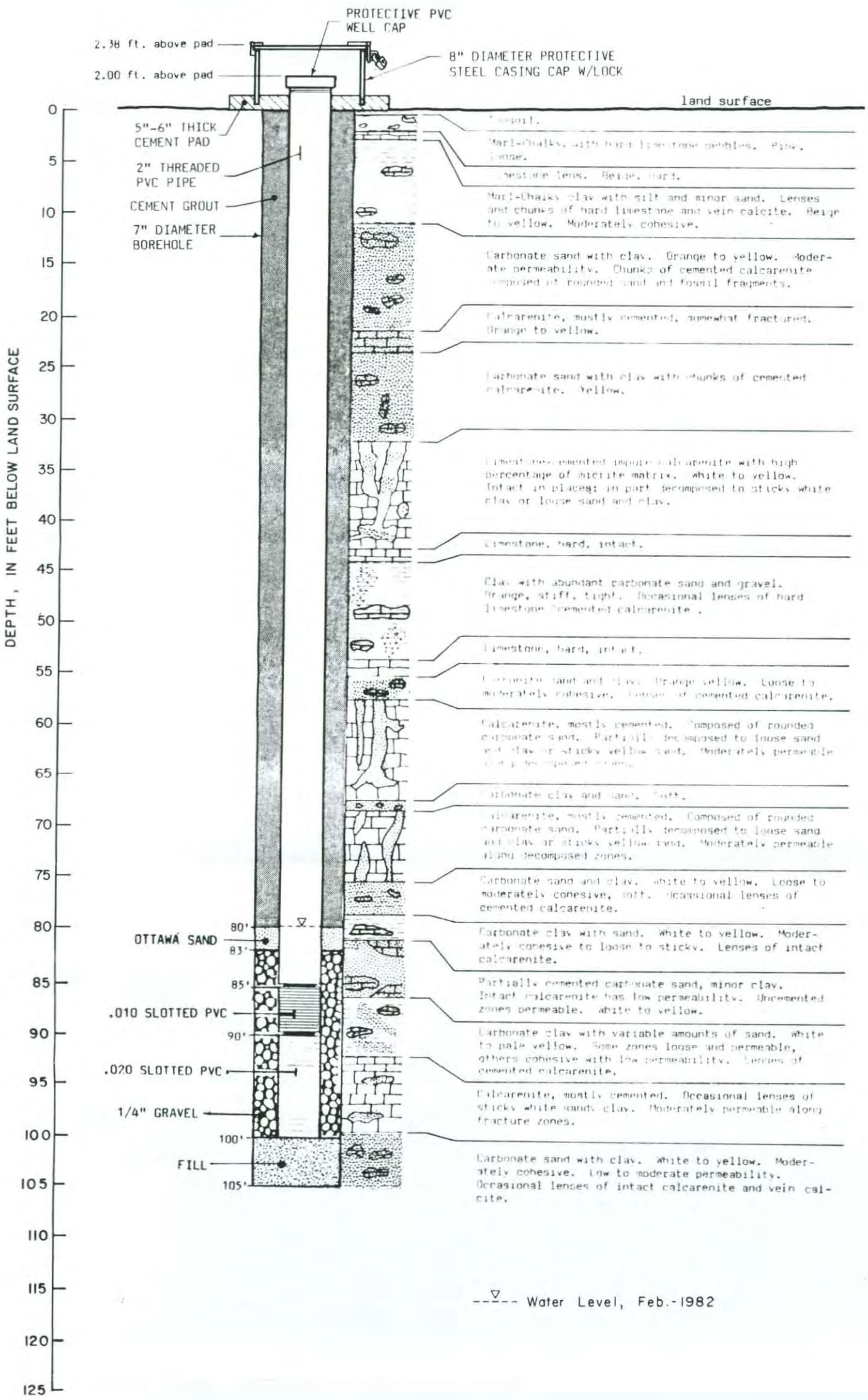
SUBJECT

CONSTRUCTION DIAGRAM AND GEOLOGIC LOG OF MONITORING WELL G-2

PREPARED FOR

MARTIN MARIETTA ALUMINA
St. Croix, U.S. Virgin Islands

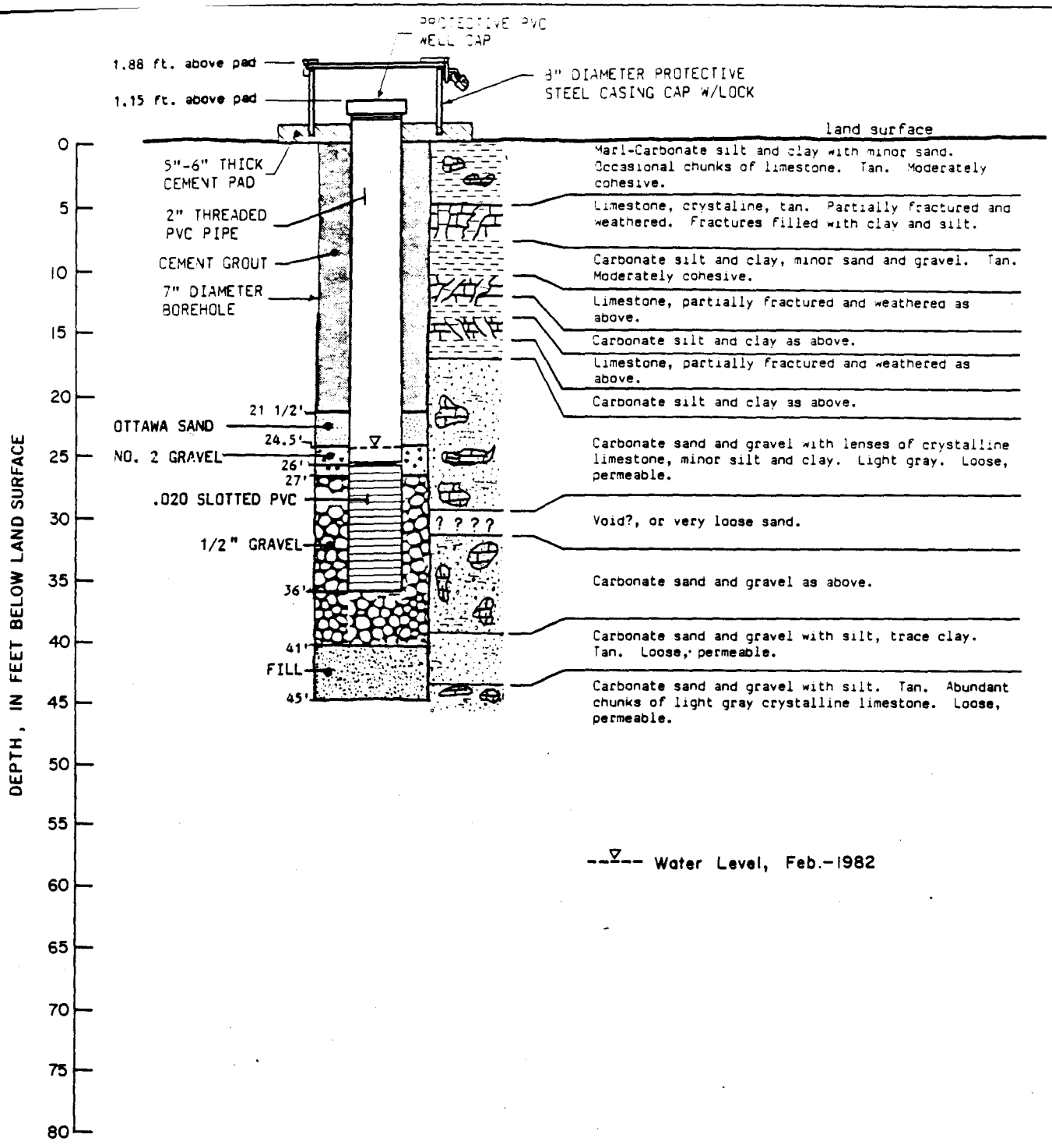
Geraghty & Miller, Inc.	COMPILED BY D. NACHMAN	SCALE SHOWN	FIGURE A-2
	PREPARED BY R. PADULA	DATE 4-1982	
	PROJECT MGR W. BOIS		



CONSTRUCTION DIAGRAM AND GEOLOGIC LOG OF MONITORING WELL G-3

MARTIN MARIETTA ALUMINA
St. Croix, U.S. Virgin Islands

Geraghty & Miller, Inc.	D. NACHMAN R. PADULA W. BOIS	SHOWN 4-1982	A-3



--▽-- Water Level, Feb.-1982

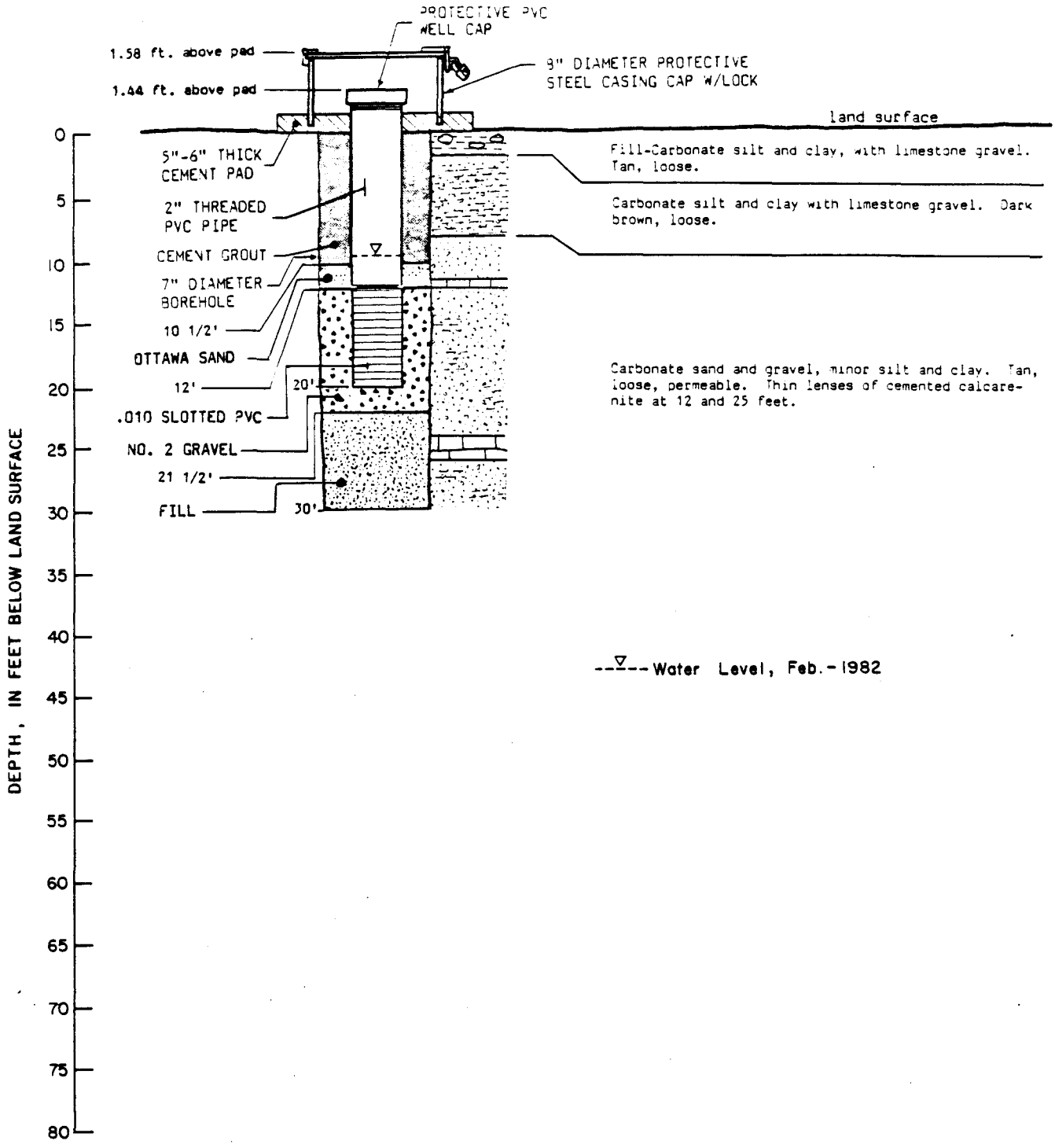
SUBJECT

CONSTRUCTION DIAGRAM AND GEOLOGIC LOG OF MONITORING WELL G-4

PREPARED FOR

MARTIN MARIETTA ALUMINA
St. Croix, U.S. Virgin Islands

Geraghty & Miller, Inc.	COMPILED BY	D. NACHMAN	SCALE	FIGURE
	PREPARED BY	R. PADULA	SHOWN	A-4
	PROJECT MGR	W. BOIS	DATE 4-1982	



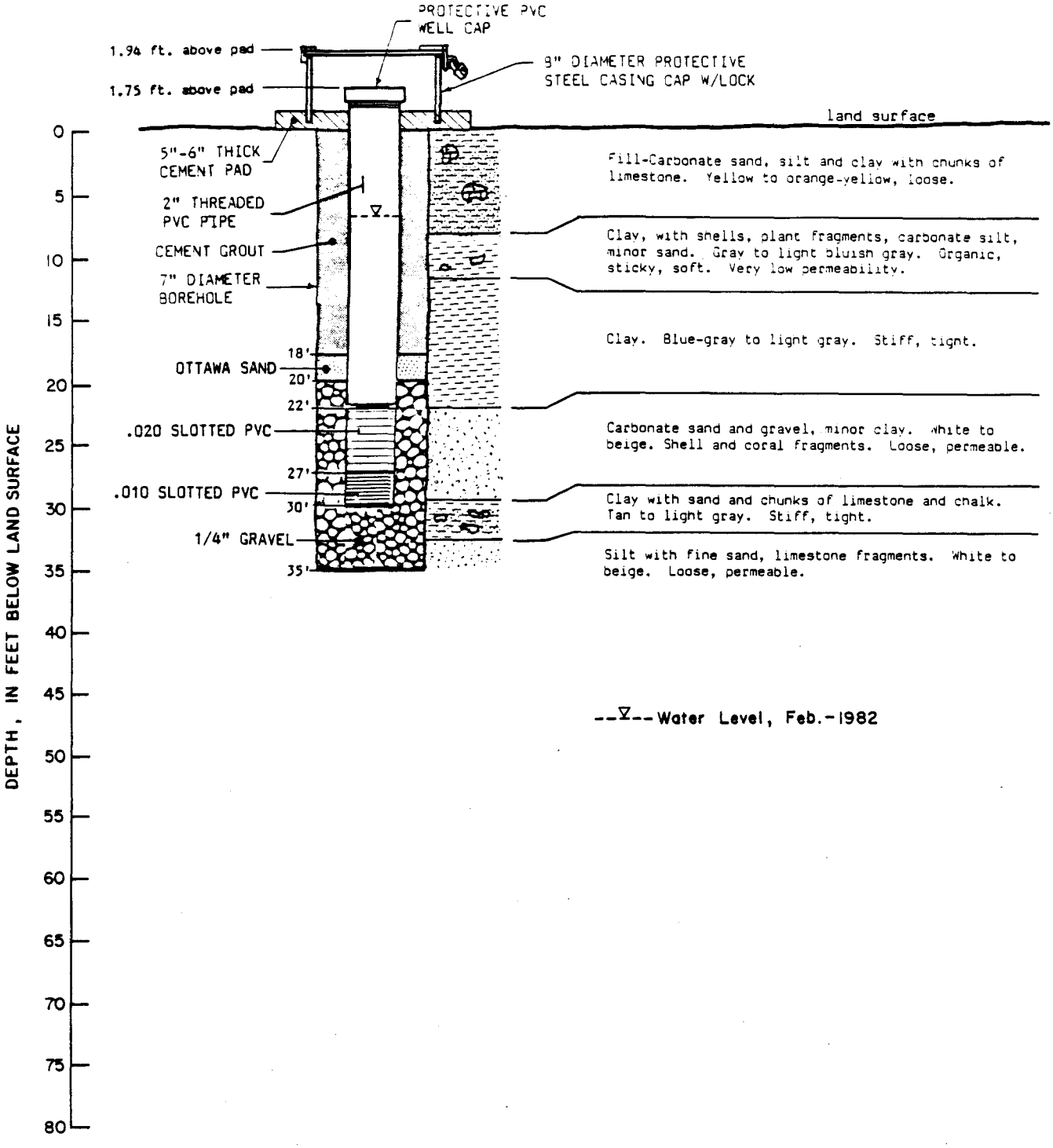
SUBJECT

CONSTRUCTION DIAGRAM AND GEOLOGIC LOG OF MONITORING WELL G-5

PREPARED FOR

MARTIN MARIETTA ALUMINA
St. Croix, U.S. Virgin Islands

Geraghty & Miller, Inc.	COMPILED BY	D. NACHMAN	SCALE SHOWN	FIGURE A-5
	PREPARED BY	R. PADULA	DATE 4-1982	
	PROJECT MGR	W. BOIS		



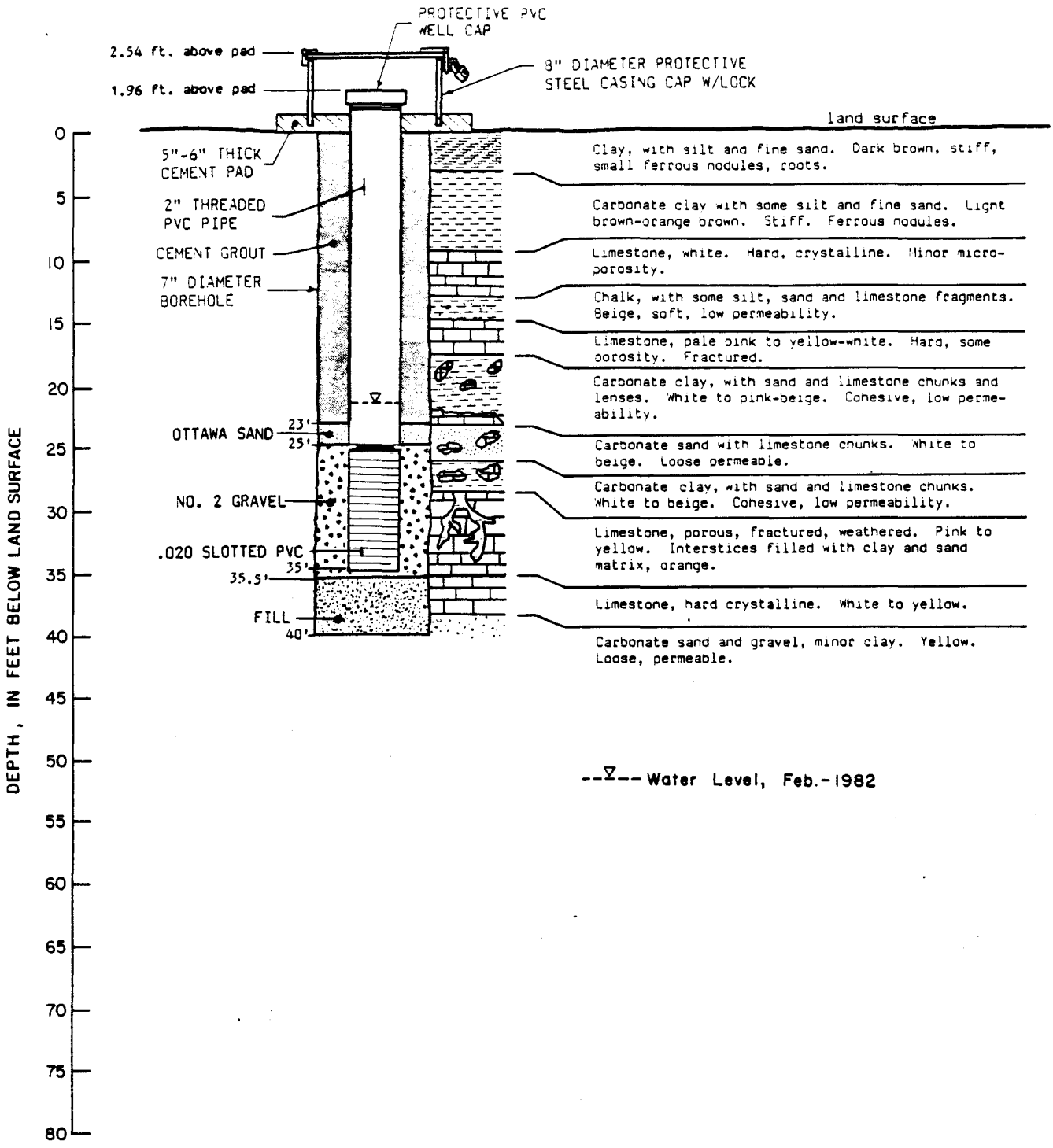
SUBJECT

CONSTRUCTION DIAGRAM AND GEOLOGIC LOG OF MONITORING WELL G-6

PREPARED FOR

MARTIN MARIETTA ALUMINA
St. Croix, U.S. Virgin Islands

Geraghty & Miller, Inc.	COMPILED BY D. NACHMAN	SCALE SHOWN	FIGURE A-6
	PREPARED BY R. PADULA	DATE 4-1982	
	PROJECT MGR W. BOIS		



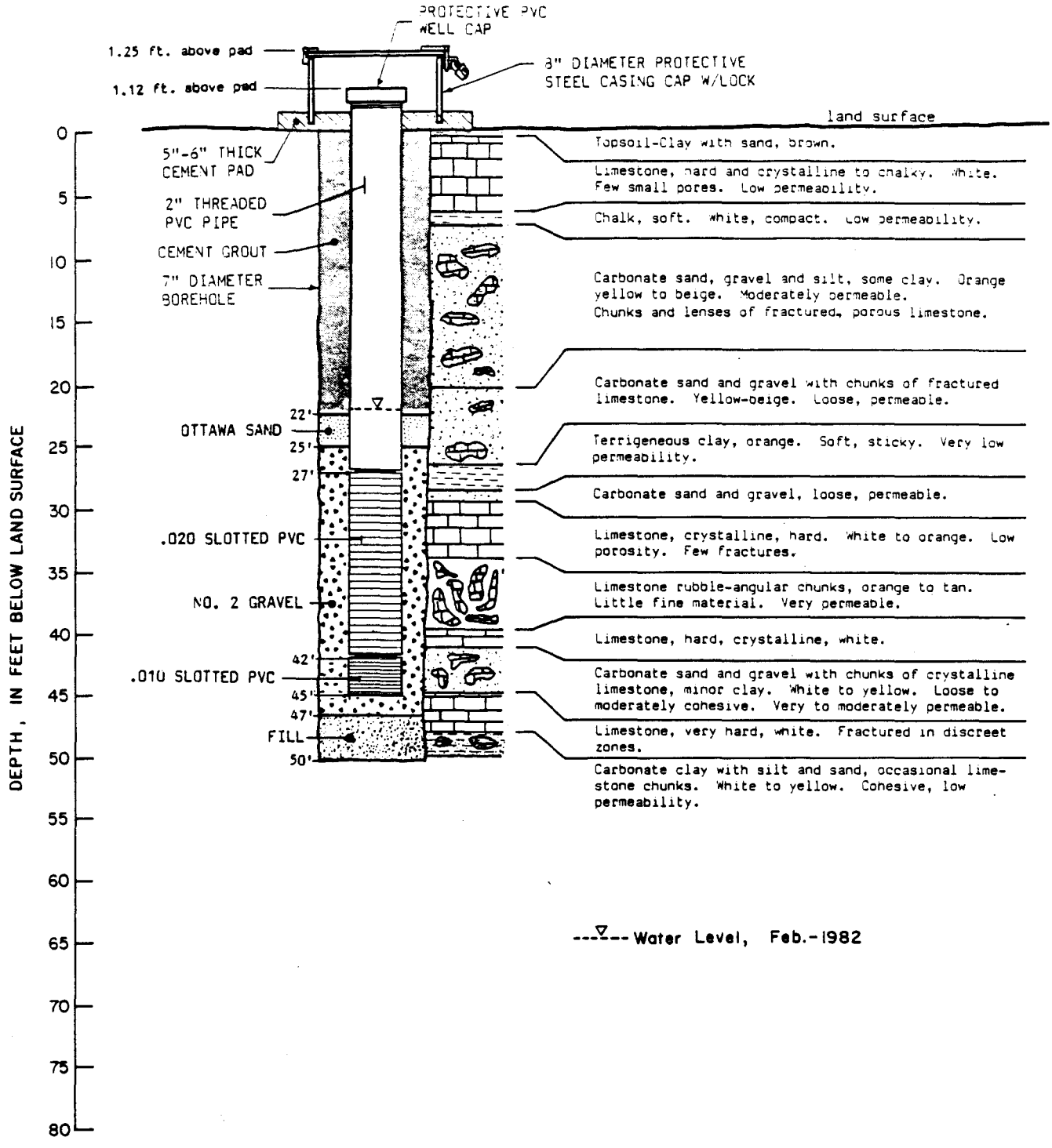
SUBJECT

CONSTRUCTION DIAGRAM AND GEOLOGIC LOG OF MONITORING WELL G-7

PREPARED FOR

MARTIN MARIETTA ALUMINA
St. Croix, U.S. Virgin Islands

Geraghty & Miller, Inc.	COMPILED BY D. NACHMAN	SCALE SHOWN	FIGURE A-7
	PREPARED BY R. PADULA	DATE 4-1982	
	PROJECT MGR W. BOIS		



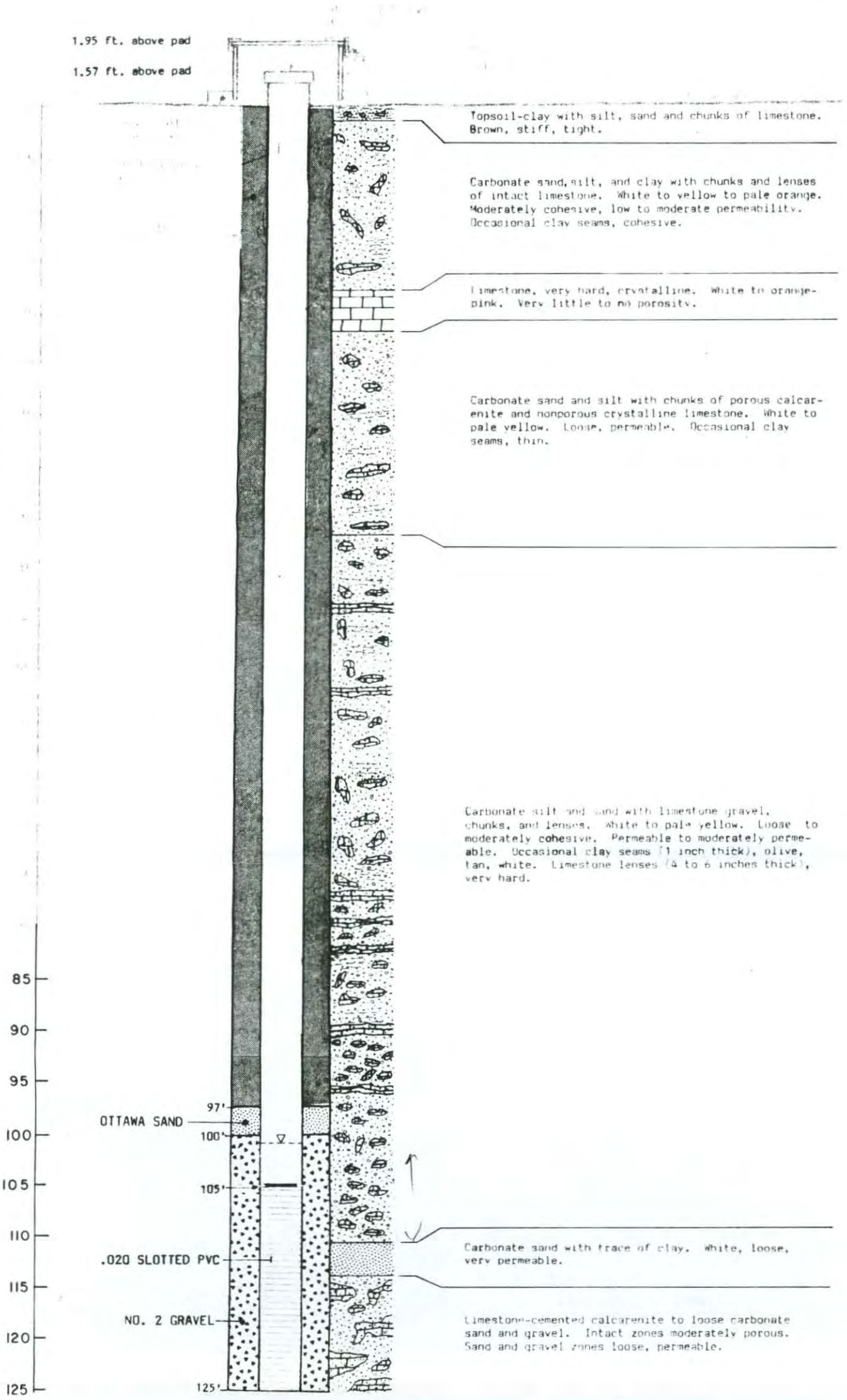
SUBJECT

CONSTRUCTION DIAGRAM AND GEOLOGIC LOG OF MONITORING WELL G-8

PREPARED FOR

MARTIN MARIETTA ALUMINA
St. Croix, U.S. Virgin Islands

Geraghty & Miller, Inc.	COMPILED BY D. NACHMAN		SCALE SHOWN	FIGURE A-8
	PREPARED BY R. PADULA		DATE 4-1982	
	PROJECT MGR W. BOIS			



--▽--Water Level, Feb.-1982

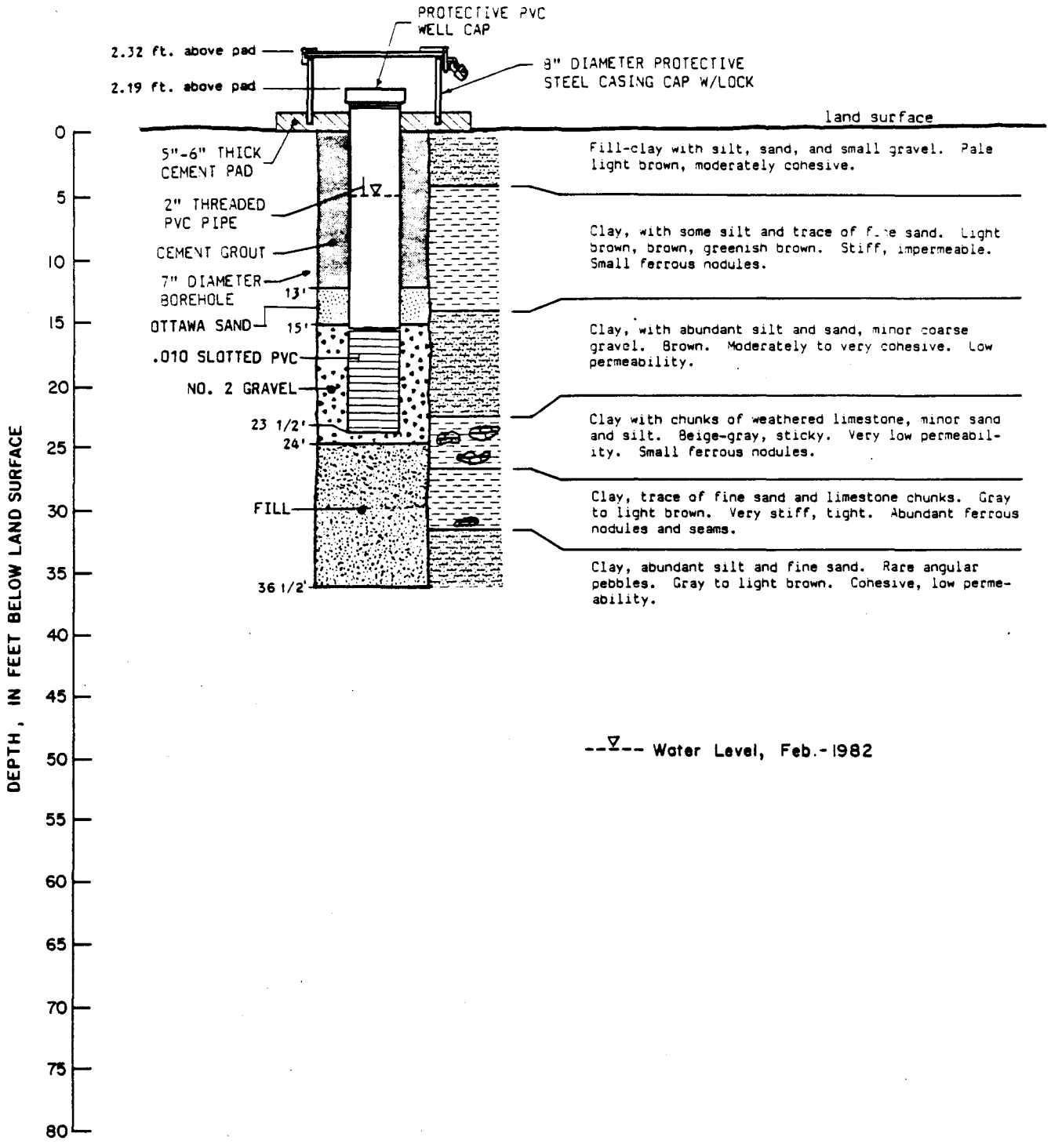
SUBJECT

CONSTRUCTION DIAGRAM AND GEOLOGIC LOG OF MONITORING WELL G-9

PREPARED FOR

MARTIN MARIETTA ALUMINA
St. Croix, U.S. Virgin Islands

Geraghty & Miller, Inc.	COMPILED BY D. NACHMAN	SCALE SHOWN	FIGURE A-9
	PREPARED BY R. PADULA	DATE 4-1982	
	PROJECT MGR W. BOIS		



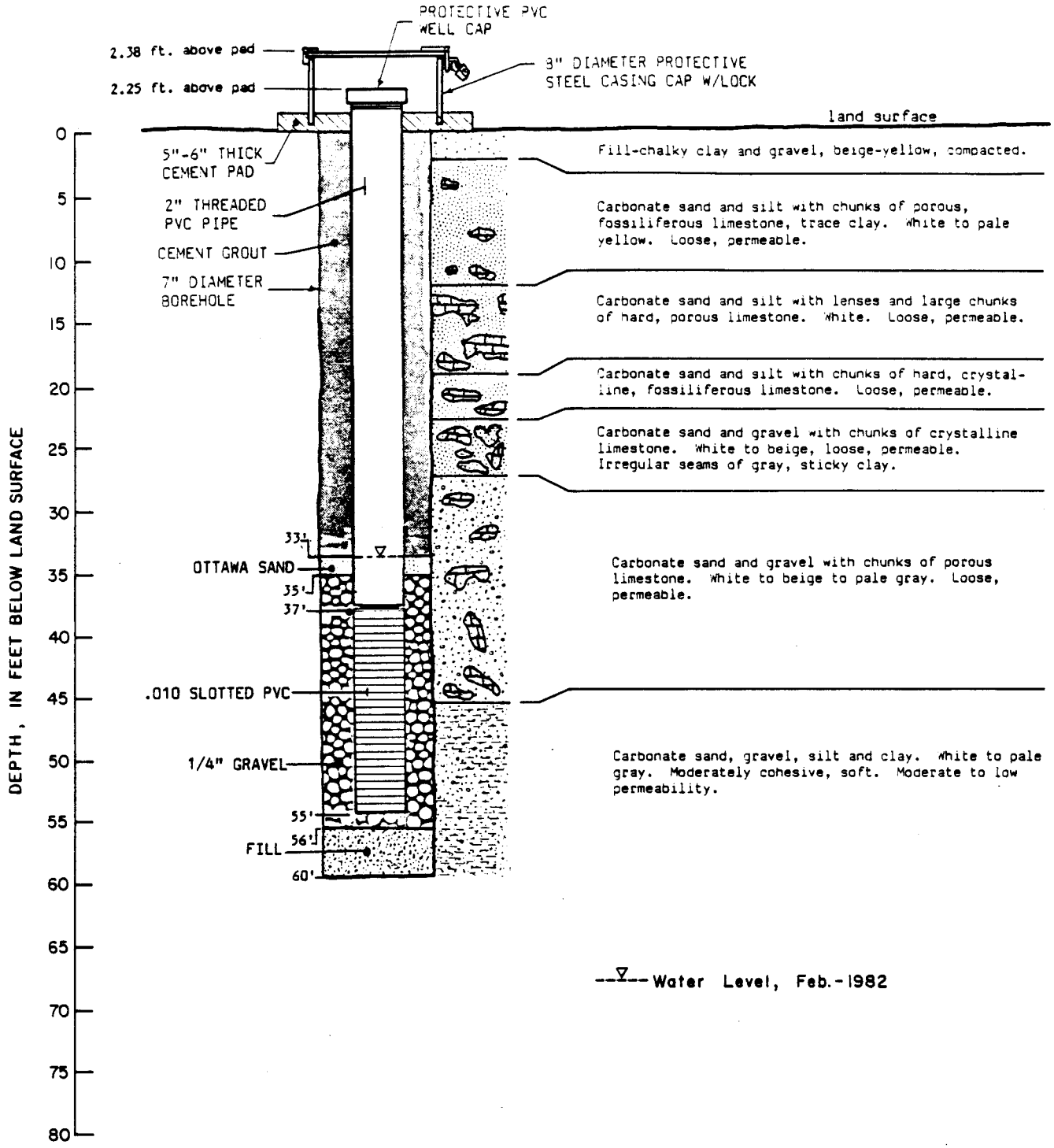
SUBJECT

CONSTRUCTION DIAGRAM AND GEOLOGIC LOG OF MONITORING WELL G-10

PREPARED FOR

MARTIN MARIETTA ALUMINA
St. Croix, U.S. Virgin Islands

Geraghty & Miller, Inc.	COMPILED BY	D. NACHMAN	SCALE	FIGURE
	PREPARED BY	R. PADULA	SHOWN	A-10
	PROJECT MGR	W. BOIS	DATE 4-1982	



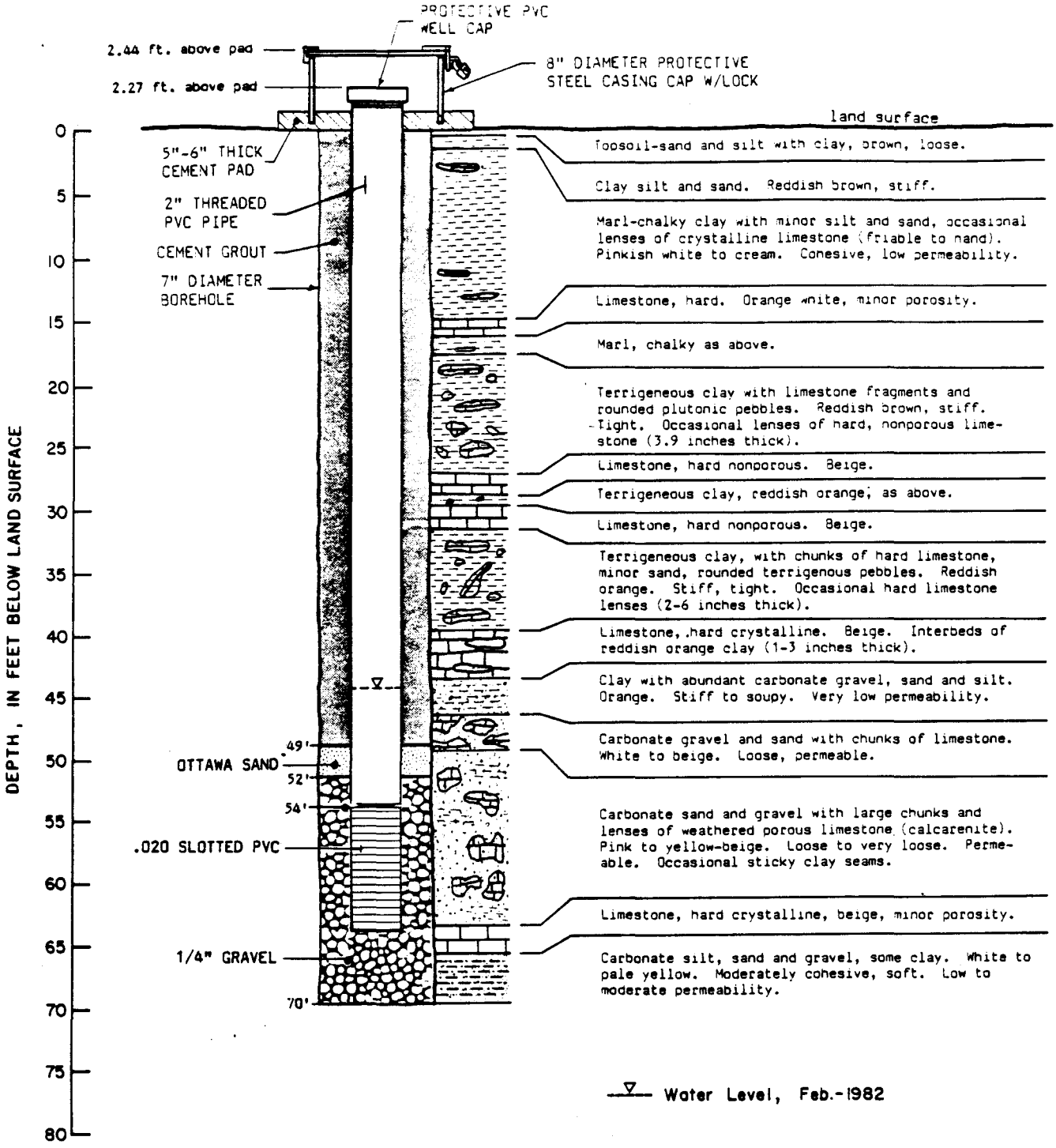
SUBJECT

CONSTRUCTION DIAGRAM AND GEOLOGIC LOG OF MONITORING WELL G-11

PREPARED FOR

MARTIN MARIETTA ALUMINA
St. Croix, U.S. Virgin Islands

Geraghty & Miller, Inc.	COMPILED BY D. NACHMAN	SCALE SHOWN	FIGURE A-11
	PREPARED BY R. PADULA	DATE 4-1982	
	PROJECT MGR W. BOIS		



SUBJECT

CONSTRUCTION DIAGRAM AND GEOLOGIC LOG OF MONITORING WELL G-12

PREPARED FOR

MARTIN MARIETTA ALUMINA
St. Croix, U.S. Virgin Islands

Geraghty & Miller, Inc.	COMPILED BY D. NACHMAN	SCALE SHOWN	FIGURE A-12
	PREPARED BY R. PADULA	DATE 4-1982	
	PROJECT MGR W. BOIS		

Table 2-1. Summary of Construction Details for Monitoring Wells Installed in June 1995, Vialco Facility, St. Croix, U.S. Virgin Islands.

Well I.D.	Date Installed	Casing and Screening Material	Well Diameter	Screen Interval (ft bgs)	Screen Slot Size (inch)	Sand Pack (ft bgs)	Bentonite Seal (ft bgs)	Cement Grout (ft bgs)
GM-13	6/21/95	Schedule 40 PVC	2	5 - 15	0.010	4 - 18	0 - 4	0
GM-13D	6/23 and 6/26/95	Schedule 40 PVC	2	50 - 90	0.010	45 - 91	40 - 45	0 - 40
GM-14	6/22/95	Schedule 40 PVC	2	8 - 33	0.010	6.5 - 35	0 - 6.5	0
GM-18	6/20 and 6/21/95	Schedule 40 PVC	2	5 - 20	0.010	3.5 - 25	0 - 3.5	0
GM-19	6/20/95	Schedule 40 PVC	2	4 - 19	0.010	2 - 19	0 - 2	0
GM-22	6/21/95	Schedule 40 PVC	2	12 - 27	0.010	10 - 30	0 - 10	0
H-1	6/22 and 6/23/95	Schedule 40 PVC	2	43.5 - 58.5	0.010	42 - 70	39 - 42	0 - 39
H-2	6/22 and 6/23/95	Schedule 40 PVC	2	31 - 46	0.010	29 - 49	27 - 29	0 - 27
H-3	6/22 and 6/23/95	Schedule 40 PVC	2	19 - 34	0.010	17 - 35	15 - 17	0 - 15

ft bgs Feet below ground surface.
PVC Polyvinyl chloride.

SAMPLE/CORE LOG

Boring/Well: GM-13 | Project No.: NJ0293.001 | Page: 1 of 1

Site Location: Vialco, St. Croix, USVI | Drilling Started: 6/21/95 | Drilling Completed: 6/21/95

Total Depth Drilled: 18 feet | Hole Diameter: 7 inches | Type of Sample/ Coring Device: Split Spoon

Length and Diameter of Coring Device: 24 inches by 2 inches | Sampling Interval: 5

Drilling Fluid Used: None | Drilling Method: Hollow Stem Auger

Drilling Contractor: CHT, St. Croix | Driller: Wes Jamison | Helper: Ibu's crew

Prepared by: Derek McGregor | Hammer Weight: 140 lbs | Hammer Drop: 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
5	7	1.4	2,3,5,10	Silt and clay with little very fine sand and little well rounded gravel size fragments of limestone; cohesive; rollable; sand increases with depth while cohesiveness decreases; brown, moist to saturated. Saturated at approximately 7 ft below land surface.
10	12	1.5	3,4,7,9	Silt with little clay and some fine sand and trace well rounded gravel size limestone fragments; moderately dense; slightly cohesive; slightly rollable; brown; moist.
15	17	1.4	8,8,10,9	Clay and silt with trace gravel size fragments of limestone (predominantly boundstone); dense; slightly cohesive and slightly rollable; friable; chalky white to tan (limestone), gray (clay) and brown (silt); very moist.

SAMPLE/CORE LOG

Boring/Well: GM-13D | Project No.: NJ0293.001 | Page: 1 of 2

Site Location: Vialco, St. Croix, USVI | Drilling Started: 6/23/95 | Drilling Completed: 6/23/95

Total Depth Drilled: 90 feet | Hole Diameter: 7 inches | Type of Sample/ Coring Device: Split Spoon

Length and Diameter of Coring Device: 24 inches by 2 inches | Sampling Interval: 5 feet

Drilling Fluid Used: None | Drilling Method: Hollow stem auger

Drilling Contractor: CHT, St. Croix | Driller: Ken Easton | Helper: Ibu's crew

Prepared by: Derek McGregor | Hammer Weight: 140 lbs | Hammer Drop: 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
5	7	1.4	2,3,5,10	Silt and clay with little very fine sand; and little well rounded gravel size fragments of limestone; cohesive; rollable; sand increases with depth while cohesiveness decreases; brown, moist to saturated; saturate at approximately 7 ft below land surface.
10	12	1.5	3,4,7,9	Silt with very little clay, some fine to fine sand and trace and trace well rounded limestone; moderately dense; slightly cohesive and slightly rollable; brown; moist.
15	17	1.4	8,8,10,9	Clay and silt with trace gravel size fragments of limestone (predominantly boundstone); dense; slightly cohesive and slightly rollable; friable; chalky white to tan (limestone), gray (clay) and brown (silt); very moist.
25	27	0.5	91, refusal	Weathered limestone (appears to be boundstone), silt to gravel size fragments; chalky white to red-brown in areas very moist pockets.
30	32	1.0	6,26,53,50	Very coarse to gravel size limestone fragments with some silt; light gray to white gray; saturated.

SAMPLE/CORE LOG

Boring/Well: GM-13D Project No.: NJ0293.001 Page: 2 of 2

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
32	76	NA	NA	Description based on drill cuttings from the augers.
76	90	NA	NA	Lagoonal clay and silt; light bluish gray; description based on drill cuttings from augers.

ALCO519617

SAMPLE/CORE LOG

Boring/Well: H-1 | Project No.: NJ0293.001 | Page: 1 of 1

Site Location: Vialco, St. Croix, USVI | Drilling Started: 6/22/95 | Drilling Completed: 6/22/95

Total Depth Drilled: 70 feet | Hole Diameter: 7 inches | Type of Sample/ Coring Device: Tri-cone bit

Length and Diameter of Coring Device: NA | Sampling Interval: NA feet

Drilling Fluid Used: Water | Drilling Method: Air Rotary

Drilling Contractor: CHT, St. Croix | Driller: Wes Jamison | Helper: Floyd & Rob

Prepared by: Derek McGregor | Hammer Weight: NA | Hammer Drop: NA

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
0	70	NA	NA	Weathered limestone with zones of clay and silt intermixed with the limestone matrix.*

*Lithology is based on drill cuttings removed from the borehole during drilling.

SAMPLE/CORE LOG

Boring/Well: H-2 Project No.: NJ0293.001 Page: 1 of 1

Site Location: Vialco, St. Croix, USVI Drilling Started: 6/22/95 Drilling Completed: 6/23/95

Total Depth Drilled: 52 feet Hole Diameter: 6 inches Type of Sample/ Coring Device: Tri-cone bit

Length and Diameter of Coring Device: NA Sampling Interval: NA feet

Drilling Fluid Used: Water Drilling Method: Air Rotary

Drilling Contractor: CHT, St. Croix Driller: Wes Jamison Helper: Floyd and Rob

Prepared by: Derek McGregor Hammer Weight: NA Hammer Drop: NA

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
0	52	NA	NA	Fragments of weathered limestone (predominantly boundstone) with zones of clay and silt; chalky white to light gray.*

*Lithology is based on drill cuttings removed from the borehole during drilling.

SAMPLE/CORE LOG

Boring/Well: H-3 | Project No.: NJ0293.001 | Page: 1 of 2

Site Location: Vialco, St. Croix, USVI | Drilling Started: 6/22/95 | Drilling Completed: 6/23/95

Total Depth Drilled: 37 feet | Hole Diameter: 7 inches | Type of Sample/ Coring Device: Split Spoon

Length and Diameter of Coring Device: 24 inches by 2 inches | Sampling Interval: 5 feet

Drilling Fluid Used: None | Drilling Method: Hollow Stem Auger

Drilling Contractor: CHT, St. Croix | Driller: Wes Jamison | Helper: Ibu's crew

Prepared by: Derek McGregor | Hammer Weight: NA | Hammer Drop: NA inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
5	7	0.5	3, 6, 7, 0	Very fine sand to gravel size fragments of weathered (predominately boundstone); friable; chalky white to gray; dry.
10	12	1.7	28, 28, 27, 30	Very fine sand to gravel size fragments of weathered (predominately boundstone); friable; chalky white to gray; slightly moist.
15	17	1.6	33, 28, 54, 48	Very fine sand to gravel size fragments of weathered (predominately boundstone); friable; chalky white to gray; slightly moist.
20	22	1.6	17, 26, 15. 15	Very fine sand to gravel size fragments of weathered (predominately boundstone); friable; chalky white to gray; moist.
25	27	2.0	9, 6, 7, 56	Silt to very fine sand; very soft, nonrollable; moist to saturated. Saturated at 25.5 feet below land surface.
30	32	1.7	70, 31, 21, 14	Fine sand to gravel size fragments of limestone (boundstone) with silt and clay; chalky white to light gray; saturated.

SAMPLE/CORE LOG (Continued)

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
35	37	1.0	33, 39, 29, 41	Fine sand to gravel size fragments of limestone (boundstone) with silt and clay; chalky white to light gray; saturated.

SAMPLE/CORE LOG

Boring/Well: B-1A | Project No.: NJ0293.001 | Page: 1 of 2

Site Location: Vialco, St. Croix, USVI | Drilling Started: 6/26/95 | Drilling Completed: 6/27/95

Total Depth Drilled: 36 feet | Hole Diameter: 7 inches | Type of Sample/ Coring Device: Split Spoon

Length and Diameter of Coring Device: 24 inches by 2 inches | Sampling Interval: 2 feet

Drilling Fluid Used: None | Drilling Method: Hollow Stem Auger

Drilling Contractor: CHT, St. Croix | Driller: Wes Jamison | Helper: Ibu's crew

Prepared by: Derek McGregor | Hammer Weight: 140 lbs | Hammer Drop: 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
2	4	0.8	15, 9, 15, 17	Limestone fill.
4	6	0	4, 2, 2, 2	Sand fill.
6	8	0	Refusal	Fragments of limestone (bound stone). Encountered empty cast iron pipe 6 feet below land surface.
8	10	1.2	17, 27, 29, 29	Sand and gravel size fragments of weathered limestone (boundstone); chalky white to tan; dry; no odor.
10	12	1.0	12, 9, drop	Sand and gravel size fragments of weathered limestone (boundstone); chalky white to tan; dry; no odor.
15	17	2.0	53, 46, 24, 13	Sand and gravel size fragments of weathered limestone (boundstone); chalky white to tan; dry; no odor.
20	22	0	Refusal	Denser zone of limestone.
25	27	2.0	23, 40, 21, 9	Sand and gravel size fragments of weathered limestone (boundstone); chalky white to tan; moist to saturated; no odor. Saturated at 31 feet below land surface.

SAMPLE/CORE LOG

Boring/Well: B-1A Project No.: NJ0293.001 Page: 2 of 2

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
30	32	0.8	4, 6, 3, 4	Sand and gravel size fragments of weathered limestone (boundstone); chalky white to tan; dry; no odor.
32	34	2.0	5, 7 ,8 4	Sand and gravel size fragments of weathered limestone (boundstone); chalky white to tan; saturated; no odor.

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SAMPLE/CORE LOG

Boring/Well: B-2A | Project No.: NJ0293.001 | Page: 1 of 1

Site Location Vialco, St. Croix, USVI | Drilling Started: 6/27/95 | Drilling Completed: 6/27/95

Total Depth Drilled: 30 feet | Hole Diameter: 7 inches | Type of Sample/ Coring Device: Split Spoon

Length and Diameter of Coring Device: 24 inches by 2 inches | Sampling Interval: 5 feet

Drilling Fluid Used: None | Drilling Method: Hollow Stem Auger

Drilling Contractor: CHT, St. Croix | Driller: Ken Easton | Helper: Ibu's crew

Prepared by: Derek McGregor | Hammer Weight: 140 lbs | Hammer Drop: 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
0	1	NA	NA	Weathered limestone fill with silt and clay; yellow-tan (limestone fill), brown (silt), and red (clay); slightly moist; no odor.
5	7	1.5	9, 7, 11, 30	Sand to gravel size fragments of weathered limestone (boundstone); friable; chalky white to tan; dry; no odor.
10	12	2.0	20, 16, 21, 20	Sand to gravel size fragments of weathered limestone (boundstone); friable; chalky white to tan; dry; no odor.
15	17	1.7	46, 56, 36, 31	Sand to gravel size fragments of weathered limestone (boundstone); friable; chalky white to tan; dry; no odor.
20	22	1.2	17, 27 12, 23	Sand and gravel size fragments of weathered limestone (boundstone); friable; chalky white to tan;. moist to very moist no odor.
22	24	1.5	3, 4, 4, 4	Sand and gravel size fragments of weathered limestone (boundstone); friable; chalky white to tan;. very moist to saturated; no odor. Saturated at approximately 24 feet below land surface.

SAMPLE/CORE LOG

Boring/Well: B-3A | Project No.: NJ0293.001 | Page: 1 of 2

Site Location: Vialco, St. Croix, USVI | Drilling Started: 6/2795 | Drilling Completed: 6/28/95

Total Depth Drilled: 36 feet | Hole Diameter: 7 inches | Type of Sample/ Coring Device: Split Spoon

Length and Diameter of Coring Device: 24 inches by 2 inches | Sampling Interval: 5 feet

Drilling Fluid Used: None | Drilling Method: Hollow Stem Auger

Drilling Contractor: CHT, St. Croix | Driller: Ken Easton | Helper: Ibu's crew

Prepared by: Derek McGregor | Hammer Weight: 140 lbs | Hammer Drop: 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
0	2	NA	NA	Concrete and fill.
5	7	1.8	13, 20, 25,19	Sand and gravel size fragments of weathered limestone (boundstone) with clay and silt; chalky white; dry; no odor.
10	12	1.5	7, 14, 14, 20	Sand and gravel size fragments of weathered limestone (boundstone) with clay and silt; blue-gray; slightly moist; no odor.
15	17	1.5	27, 19, 14, 40	Sand and gravel size fragments of weathered limestone (boundstone) with clay and silt; blue-gray slightly moist.
20	22	1.8	24, 24, 19, 25	Sand and gravel size fragments of weathered limestone (boundstone) with clay and silt; blue-gray; moist.
25	27	1.8	17, 17, 17, 22	Sand and gravel size fragments of weathered limestone (boundstone) with clay and silt; blue-gray; moist.
30	32	1.5	15, 15, 23, 15	Sand and gravel size fragments of weathered limestone (boundstone) with clay and silt; blue-gray; very moist, odor.

SAMPLE/CORE LOG (Continued)

Boring/Well: B-3A Project No.: NJ0293.001 Page: 2 of 2

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
34	36	1.8	7, 15, 17, 23	Sand and gravel size fragments of weathered limestone (boundstone) with clay and silt; blue-gray; very moist to saturated; odor. Saturated at approximately 36 feet below land surface.

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SAMPLE/CORE LOG

Boring/Well: GM-18 | Project No.: NJ0293.001 | Page: 1 of 1

Site Location: Vialco, St. Croix, USVI | Drilling Started: 6/20/95 | Drilling Completed: 6/20/95

Total Depth Drilled: 27 feet | Hole Diameter: 7 inches | Type of Sample/ Coring Device: Split Spoon

Length and Diameter of Coring Device: 24 inches by 2 inches | Sampling Interval: 5 feet

Drilling Fluid Used: None | Drilling Method: Hollow Stem Auger

Drilling Contractor: CHT, St. Croix | Driller: Wes Jamison | Helper: Ibu's crew

Prepared by: Derek McGregor | Hammer Weight: 140 lbs | Hammer Drop: 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
5	7	1.0	11, 11, 16, 10	Well graded sand and gravel sized rounded to subangular fragments of weathered limestone; chalky white to tan; very moist to saturated. Saturated at 6.5 feet below land surface. Color change from chalky white to tan-gray at approximately 6.5 feet below land surface.
10	12	1.0	5, 10, 12, 26	Well graded sand and gravel sized rounded to subangular fragments of weathered limestone; dark gray; saturated; strong anaerobic odor.
15	17	1.5	1, 1, 1, 1	Clay and silt; soft with cohesiveness decreasing with depth; dark gray and black; saturated; no odor. Shell fragments throughout bottom part of spoon.
20	22	2.0	1, 2, 4, 5	Clay and silt with some very fine sand; soft; cohesive; rollable; olive green to blue gray; no odor.
25	27	2.0	2, 3, 7, 7	Clay and silt with little very fine sand; moderately dense; cohesive, rollable; brown-tan; moist; no odor.

SAMPLE/CORE LOG

Boring/Well: GM-19 | Project No.: NJ0293.001 | Page: 1 of 1

Site Location: Vialco, St. Croix, USVI | Drilling Started: 6/20/95 | Drilling Completed: 6/20/95

Total Depth Drilled: 22 feet | Hole Diameter: 7 inches | Type of Sample/ Coring Device: Split Spoon

Length and Diameter of Coring Device: 24 inches by 2 inches | Sampling Interval: 5 feet

Drilling Fluid Used: None | Drilling Method: Hollow Stem Auger

Drilling Contractor: CHT, St. Croix | Driller: Wes Jamison | Helper: Ibu's crew

Prepared by: Derek McGregor | Hammer Weight: 140 lbs | Hammer Drop: 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
0	2	2.0	3, 5, 5, 7	Limestone fill with clay and silt and some organic matter; soft; cohesive; rollable; gray and black;. moist; no odor.
5	7	2.0	4, 5, 5, 7	Clay and silt with some very fine sand and trace shell fragments; soft, cohesive, rollable, brown; moist; no odor.
10	12	2.0	3, 5, 6, 9	Clay and silt with some very fine sand and trace shell fragments; soft, cohesive, rollable, light brown with pockets of gray; moist; no odor.
15	17	2.0	7, 10 17, 19	Silt and clay with some very fine to medium sand; medium density; cohesive; slightly rollable; brown to tan; moist; no odor.
20	22	2.0	5, 7, 10, 14	Silt and clay with some very fine to medium sand and trace gravel size, rounded fragments of weathered limestone; medium dense; cohesive; slightly rollable; brown to tan with black streaks; moist; no odor.

SAMPLE/CORE LOG

Boring/Well: GM-14 | Project No.: NJ0293.001 | Page: 1 of 2

Site Location: Vialco, St. Croix, USVI | Drilling Started: 6/22/95 | Drilling Completed: 6/22/95

Total Depth Drilled: 37 feet | Hole Diameter: 7 inches | Type of Sample/ Coring Device: Split Spoon

Length and Diameter of Coring Device 24 inches by 2 inches | Sampling Interval: 5

Drilling Fluid Used: None | Drilling Method: Hollow Stem Auger

Drilling Contractor: CHT, St. Croix | Driller: Wes Jamison | Helper: Ibu's crew

Prepared by: Derek McGregor | Hammer Weight: 140 lbs | Hammer Drop: 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
5	7	1.2	3, 3, 4, 4	Clay and silt with little fine sand, and trace coarse sand and gravel size limestone fragments; soft; cohesive; slightly rollable; dark gray with pockets of brown and light gray; moist; no odor.
10	12	2.0	push	Silt and clay with trace, very fine sand; very soft; cohesive; nonrollable; blue-gray; very moist to saturated; no odor. Little shells and organic matter throughout spoon.
15	17	1.7	3, 3, 4, 4	Silt and clay with trace very fine sand, very soft; cohesive; nonrollable; blue-gray; very moist to saturated; no odor.
20	22	2.0	3, 5, 6, 7	Silt and clay with trace very fine sand and fine well rounded gravel; moderately dense, cohesive, rollable; blue-gray; very moist to saturated.
25	27	2.0	3, 4, 6, 7	Silt and clay with little very fine sand; dense; moderately cohesive; slightly rollable; light green-gray to brown with black streaks; no odor.

SAMPLE/CORE LOG

Boring/Well: GM-14 Project No.: NJ0293.001 Page: 2 of 2

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
30	32	1.8	3, 4, 8, 12	Silt and clay with little very fine sand and few coarse sand to gravel size fragments of limestone; dense, moderately cohesive; slightly rollable; light green-gray to brown with black streaks; no odor.*
35	37	2.0	3, 5, 6, 9	Silt to coarse gravel size fragments of highly weathered limestone; very soft; nonrollable; chalky white; saturated; no odor.

*Lithologic change at approximately 31.5 feet below land surface; lagoonal silt and clay to weathered limestone.

SAMPLE/CORE LOG

Boring/Well: GM-22 | Project No.: NJ0293.001 | Page: 1 of 1

Site Location: Vialco, St. Croix, USVI | Drilling Started: 6/21/95 | Drilling Completed: 6/21/95

Total Depth Drilled: 32 feet | Hole Diameter: 7 inches | Type of Sample/ Coring Device: Split Spoon

Length and Diameter of Coring Device: 24 inches by 2 inches | Sampling Interval: 5 feet

Drilling Fluid Used: None | Drilling Method: Hollow Stem Auger

Drilling Contractor: CHT, St. Croix | Driller: Wes Jamison | Helper: Ibu's crew

Prepared by: Derek McGregor | Hammer Weight: 140 lbs | Hammer Drop: 30 inches

Sample/Core Depth (feet below land surface) From	To	Core Recovery (feet)	Time/Hydraulic Pressure or Blows per 6 inches	Sample/Core Description
5	7	2.0	3, 5, 5, 7	Silt and fine sand with little clay; very soft; nonrollable; red, no odor. Resembles material from red mud pile.
10	12	2.0	1, push	Silt and fine sand with little clay; very soft; nonrollable; red, moist no odor.
15	17	1.5	1, push	Silt and clay with some fine sand; very soft; nonrollable; red, very moist.
20	22	2.0	1, push	Silt and clay with some fine sand; very soft; nonrollable; red, very moist to saturated. Saturated at approximately 21 feet below land surface.
25	27	2.0	1, push	Silt with some very fine grain sand and little clay; very soft; blue-gray; moderate odor.*
30	32	1.8	1, 1, 1, 1	Clay and silt with some very fine sand; slightly dense; somewhat rollable; brown-tan with black streaks, moist; no odor.

* Lithologic change at approximately 22 feet below land surface; red mud to marine lagoonal silt and clay.

ALCO519631

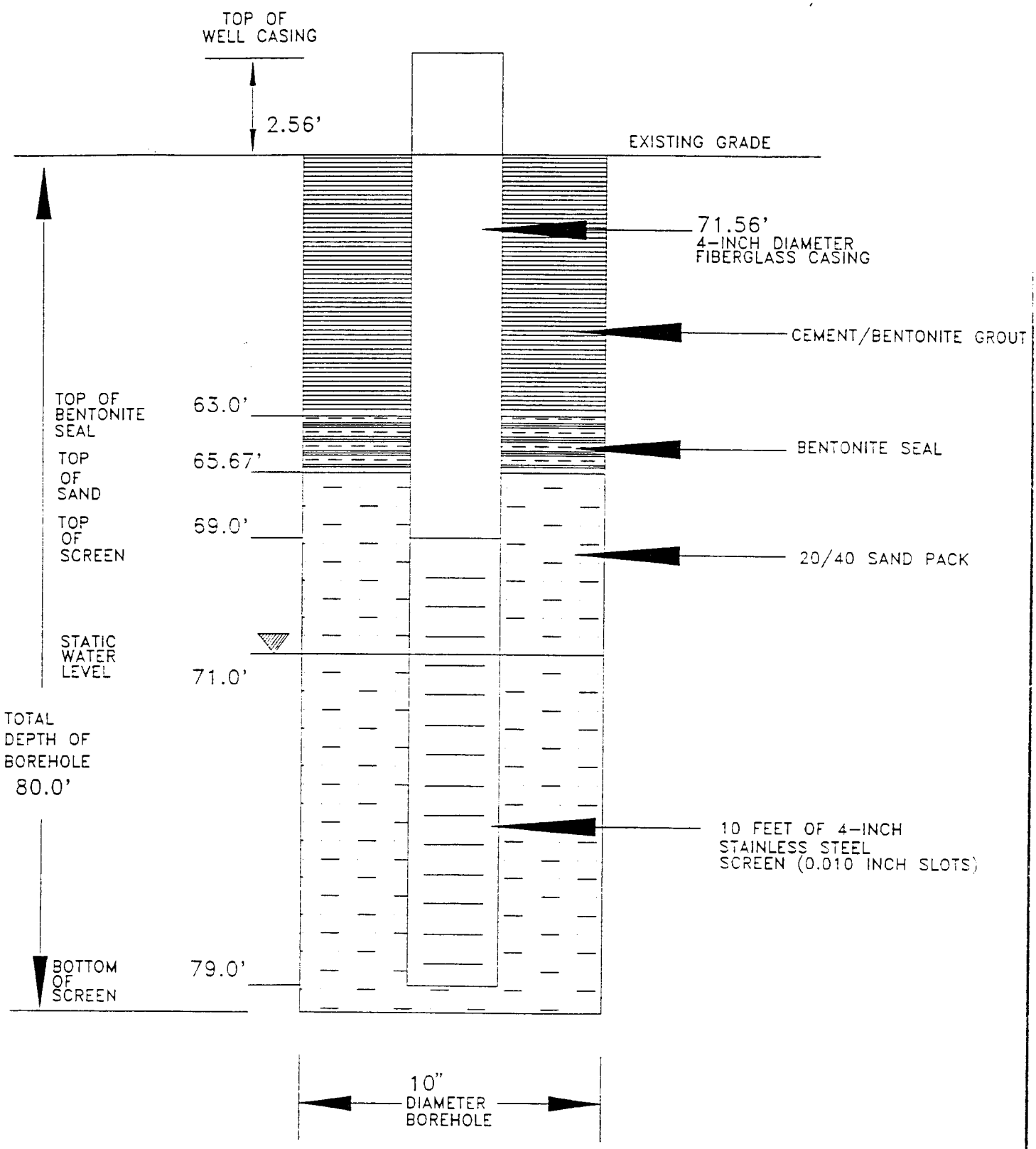
ENVIRONMENTAL MANAGEMENT SERVICES, INC.
BORING/WELL LOG

Well/Boring No.: VW-11 Date Started: 3/18/95 Date Finished: 3/20/95
Owner: HOVIC Well/Boring Location: VIALCO Use: OBSERVATION
Drilling Company: CARIBBEAN DRILLING Drilling Method: SSA Sampling Method: GRAB
Geologist: CARPENTIER/ANTOINE Rig Type: CME-55 Soil Classification Method: MODIFIED BURMISTER
Borehole Diameter: 10" Total Depth of Borehole: 80'
Casing Type: FIBERGLASS Casing Diameter: 4" Casing Interval: 69' TO GRADE +2.56'
Screen Type: STAINLESS Screen Slots: 0.010" Screen Diameter: 4" Screen Interval: 79'-69'
Gravel Pack Size: 20/40 RESEIVE Gravel Pack Interval: 80'-65.67'
Casing Seal Interval: 65.67'-63' Casing Seal Type: BENTONITE Static Water Level: 71'

Depth Below Surface (FT)	Blows per 6" Sampler	Recovery (%)	PID (PPM)	Sample Number	Sample Depth (Feet)	Saturation Depth	LITHOLOGY / REMARKS
5							Caliche; dry
10							Moderate Limestone; dry
15							
20							Hard Limestone; dry
25							
30							Soft formation - cuttings = brown clay; dry

Depth Below Surface (FT)	Blows Per 6" Sampler	Recovery (%)	PID (ppm)	Sample Number	Sample Depth (Feet)	Saturation Depth	Boring/Well Number: VW-11 Page 2 LITHOLOGY / REMARKS
35							Soft formation – cuttings = brown CLAY; dry
40							Soft formation – cuttings = brown CLAY, some Limestone clasts; wet at 71'
45							
50							
55							
60							
65							
70			0.0			▽	
75							Hard Limestone; wet

Depth Below Surface (FT)	Blows Per 6" Sampler	Recovery (%)	PID (ppm)	Sample Number	Sample Depth (Feet)	Saturation Depth	Boring/Well Number: VW-11 Page 3 LITHOLOGY / REMARKS
							Hard Limestone; wet
80							Boring terminated at 80 feet.
85							
90							
95							
100							
105							
110							
115							
120							



* ALL VERTICAL MEASUREMENTS ARE FROM GRADE

WELL # VW-11

EMS

MONITORING WELL
CONSTRUCTION DIAGRAM

Drawn By:	Date:	Scale:
JPC	3/20/95	None

HESS OIL VIRGIN ISLANDS CORP.
KINGSHILL/ LIMETREE ROAD
ST. CROIX, USVI

FOSTER WHEELER ENVIRONMENTAL CORPORATION
BORING/WELL LOG

Well/Boring No.: VW-16 Date Started: 3/26/96 Date Finished: 3/27/96

Owner: HOVIC Well/Boring Location: ST. CROIX ALUMINA PLANT Use: MONITORING

Drilling Company: CARIBBEAN DRILLING Drilling Method: SSA Sampling Method: GRAB

Geologist: J. CARPENTIER Rig Type: CME-55 Soil Classification Method: MODIFIED BURMISTER

Borehole Diameter: 10" Total Depth of Borehole: 45'

Casing Type: FIBERGLASS Casing Diameter: 4" Casing Interval: 26.5-GRADE+2'

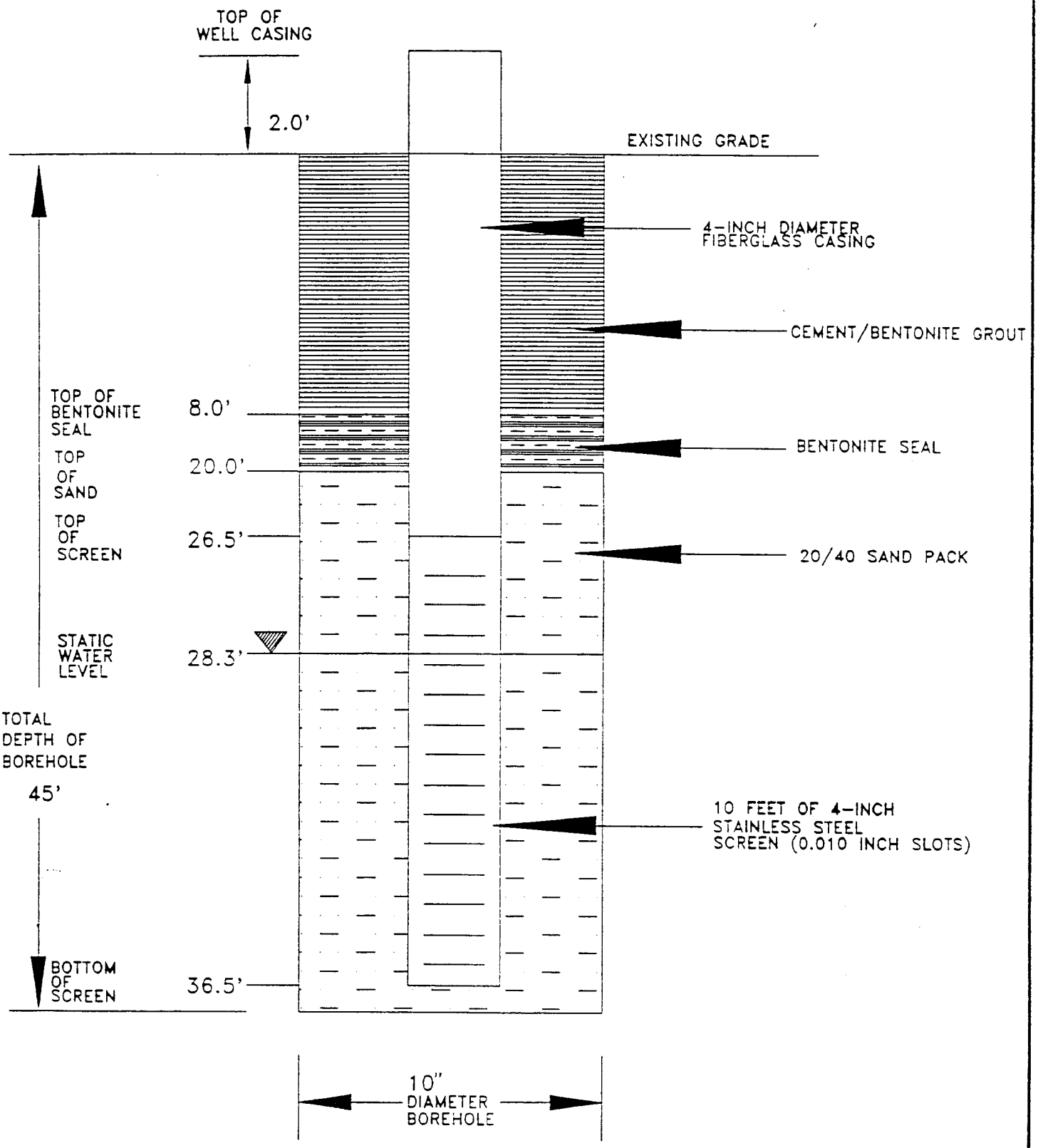
Screen Type: STAINLESS Screen Slots: 0.010" Screen Diameter: 4" Screen Interval: 26.5-36.5'

Gravel Pack Size: 20/40 RESEIVE Gravel Pack Interval: 45 - 20'

Casing Seal Interval: 20 - 8' Casing Seal Type: BENTONITE Static Water Level: 28.3'

Depth Below Surface (FT)	Blows per 6" Sampler	Recovery (%)	PID (PPM)	Sample Number	Sample Depth (Feet)	Saturation Depth	LITHOLOGY / REMARKS
							Tan coarse to fine SAND, medium to fine Gravel, trace Silt and Clay; dry
							Moderate LIMESTONE; dry
5							Hard LIMESTONE; wet at 28.3'
10							
15							
20							
25						▽	
30							

Depth Below Surface (FT)	Blows Per 6" Sampler	Recovery (%)	PID (ppm)	Sample Number	Sample Depth (Feet)	Saturation Depth	Boring/Well Number: VW-16 Page 2 LITHOLOGY / REMARKS
							Hard LIMESTONE; wet
35							Moderate LIMESTONE; wet
40							Soft LIMESTONE; wet
45							Boring terminated at 45.0 feet.
50							
55							
60							
65							
70							
75							



* ALL VERTICAL MEASUREMENTS ARE FROM GRADE

WELL # VW-16

FOSTER WHEELER ENVIRONMENTAL CORPORATION	MONITORING WELL CONSTRUCTION DIAGRAM			HESS OIL VIRGIN ISLANDS CORP. KINGSHILL/ LIMETREE ROAD ST. CROIX, USVI
	Drawn By: JPC	Date: 3/27/96	Scale: None	

HESS

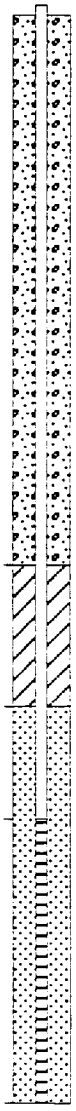
LOG OF BORING VW-22

Hess Oil Virgin Islands Corp.
St. Croix Refinery
St. Croix, U.S. Virgin Islands

Date Completed	: 6/13/96	Geologist	: K. Antoine
Drilling Method	: 10 in.	Owner	: HOVIC
Driller	: Caribbean Drilling	Location	: St. Croix Alumina
Sampling Method	: Grab	Surface Elevation	: 54.39 ft.

Depth in ft.	DESCRIPTION	GRAPHIC	USCS	PID (ppm)
0	topsoil			
	light brown fine to coarse SAND, trace Gravel; dry		SP	
5	orange/red CLAY, fine Sand; dry		CL	
	light brown fine to coarse SAND; dry		SP	45.2
10	tan CLAY, fine to coarse Sand; dry		CL	4.9
15				
	moderate LIMESTONE; dry			1.0
20				
25				
30	orange/brown CLAY, coarse Sand; wet		CL	0.0
35	orange CLAY, coarse Sand, trace Gravel; wet		CL	0.0
40	orange CLAY; wet		CH	
45				
50	Boring terminated at 50 ft.			

VW-22
ELEV: 57.39



Well Construction Information

WELL CONSTRUCTION
Date Compl. : 6/13/96
Hole Diameter : 10 in.
Drill Method : SSA
Company Rep. : K. Antoine
WELL CASING :
Material : Fiberglass
Diameter : 4 in.
Joints : threaded
WELL SCREEN :
Material : Stainless Steel
Diameter : 4 in.
Joints : threaded
Opening : 0.01 slot
Length : 10 ft.
SAND PACK : 20/40

ANNULUS SEAL : cement/grout

SURFACE CASING
Material : Fiberglass
Diameter : 4 in.
Cap : locking compression

NOTES

Offsite Investigation Well on St. Croix Alumina L.L.C. property (formerly VIALCO)

Map Coordinates:
(HOVIC datum)
10498.369 North
5824.062 East

Surface Elevation:
(HOVIC datum) 54.39 ft. MSL

No fluid level measured in well. Saturated clay encountered at 30 ft.
Open hole water level: 46.15 ft. on 6/13/96.

9-17-1996 c:\mtech3\vialco\vw-22.ge3

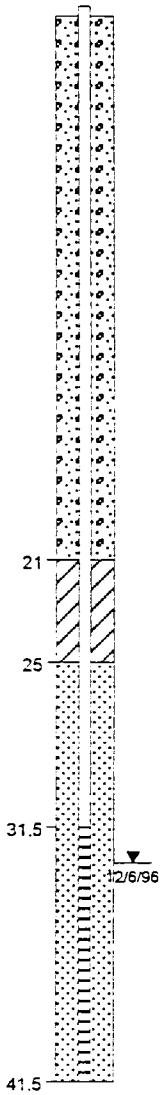
HESS

LOG OF BORING VW-25

Hess Oil Virgin Islands Corp.
St. Croix Refinery
St. Croix, U.S. Virgin Islands

Date Completed	: 12/6/96	Geologist	: K. Antoine
Drilling Method	: Rotary Auger	Owner	: HOVIC
Driller	: Caribbean Drilling	Location	: St. Croix Alumina
Sampling Method	: Grab	Surface Elevation	: 35.09 MSL

Depth in Feet	DESCRIPTION	GRAPHIC	USCS	PID (ppm)
0	Light tan soft LIMESTONE; dry			0.0
10	moderate LIMESTONE; dry			
	Tan soft LIMESTONE			0.0
15	Tan CLAY, fine to coarse Sand; dry		CL	
20	Tan soft LIMESTONE			0.0
25				0.0
30				
35				0.0
40	No returns; easy drilling - Soft material			0.0
45				
50				0.0
55				



Well Construction Information

WELL CONSTRUCTION

Date Compl.	: 12/6/96
Hole Diameter	: 10 in.
Drill. Method	: SSA
Company Rep.	: K. Antoine

WELL CASING

Material	: Fiberglass
Diameter	: 4 in.
Joints	: threaded

WELL SCREEN

Material	: Stainless Steel
Diameter	: 4 in.
Joints	: threaded
Opening	: 0.01 slot
Length	: 10 ft.
SAND PACK	: 20/40
ANNULUS SEAL	: cement/grout

SURFACE CASING

Material	: Fiberglass
Diameter	: 4 in.
Cap	: locking compression

NOTES

Offsite Investigation Well on St. Croix Alumina L.L.C. property (formerly VIALCO)

Ground Elevation: 35.09 MSL
Top of cement apron: 35.89 MSL
(HOVIC datum)

Map Coordinates:
9608.077 North
4887.844 East
(HOVIC datum)

12-18-1996 c:\vmtech3\vialco\vw-25 gc3

HESS

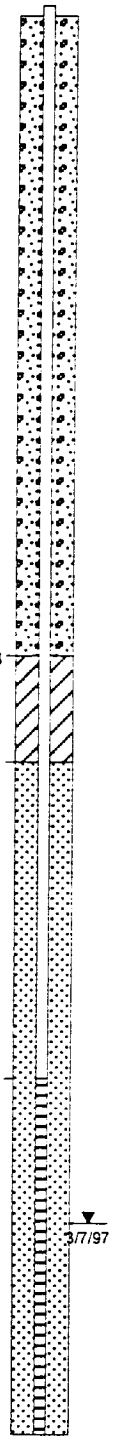
LOG OF BORING VW-27

Hess Oil Virgin Islands Corp.
St. Croix Refinery
St. Croix, U.S. Virgin Islands

Date Completed	: 3/6/97	Geologist	: K. Antoine
Drilling Method	: Rotary Method	Owner	: HOVIC
Driller	: Caribbean Drilling	Location	: St. Croix Alumina
Sampling Method	: Grab	Surface Elevation	: 36.08 MSL

Depth in ft	DESCRIPTION	GRAPHIC	USCS	PID (ppm)
0	Light tan soft LIMESTONE; dry			0.0
5				0.0
10	Light tan moderate LIMESTONE			0.0
15				
20				0.0
25				
30				0.0
35				0.0
40				

VW-27
ELEV: 38.17



Well Construction Information

WELL CONSTRUCTION

Date Compl.	: 3/6/97
Hole Diameter	: 12 in.
Drill Method	: HSA
Company Rep.	: K. Antoine

WELL CASING

Material	: Fiberglass
Diameter	: 4 in.
Joints	: Threaded

WELL SCREEN

Material	: Stainless Steel
Diameter	: 4 in.
Joints	: Threaded
Opening	: 0.01 slot
Length	: 10 ft.
SAND PACK	: 20/40
ANNULUS SEAL	: cement/grout

SURFACE CASING

Material	: Fiberglass
Diameter	: 4 in.
Cap	: locking compression

NOTES

Offsite Investigation Well on
St. Croix Alumina L.L.C.
property (formerly VIALCO)

Ground Elevation: 36.08 MSL
Top of cement apron: 36.76 MSL
(HOVIC datum)

Map Coordinates:
9640.289 North
6235.286 East
(HOVIC datum)

3-14-1997 c:\mtech3\vialco\vw-27.ge3

HOVENSA

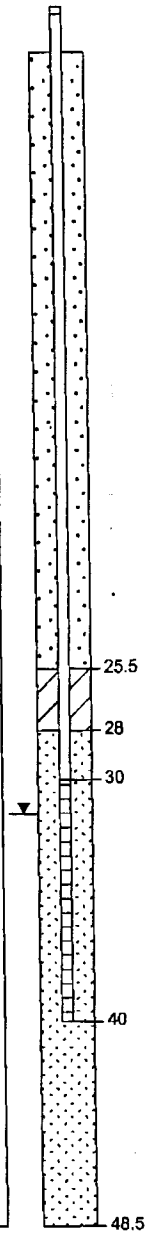
LOG OF BORING LOG OF BORING VW-31

(Page 1 of 1)

#1 ESTATE HOPE
CHRISTIANSTED, VI 00820

Date Completed	: 8/8/02	Owner	: HOVENSA
Drilling Method	: Solid Stem Auger	Location	: St. Croix Alumina
Driller	: Caribbean Drilling	Surface Elevation	: 35.33
Geologist	: D. Watterson		

Depth in feet	DESCRIPTION	GRAPHIC	USCS
0	Dark brown/grey CALICHE with 1-2" subangular fragments.		LS
5			
	Buff colored soft CALICHE/highly weathered LIMESTONE.		LS
10	Buff weathered LIMESTONE, subangular cuttings.		LS
15	Buff soft CALICHE/highly weathered LIMESTONE.		LS
	Buff moderate weathered LIMESTONE		LS
20			
25	Hard weathered LIMESTONE.		LS
30			
35			
40			
45			
50			



Well Construction Information

WELL CONSTRUCTION

Hole Diameter	: 8 inch
Type of Augers	: Solid Stem Auger

WELL CASING

Material	: Fiberglass
Diameter	: 4 inch
Joints	: threaded

WELL SCREEN

Material	: Stainless Steel
Diameter	: 4 inch
Joints	: threaded
Opening	: 0.01 slot
Length	: 10 ft.
Sand Pack	: 20/30
Sand Pack Seal	: Bentonite Pellets
ANNULUS SEAL	: Cement Grout

NOTES

St. Croix Alumina
Observation Well

Measurable PSH encountered.

Survey Coordinates
to HOVIC Datum:
10084.37 North
5118.10 East

09-09-2002 D:\HOVENSA\BORINGS\vw-31.bor

HOVENSA

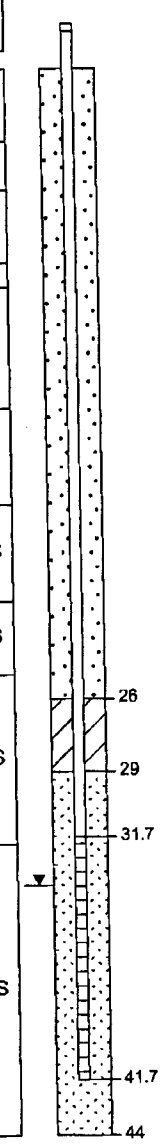
LOG OF BORING LOG OF BORING VW-32

(Page 1 of 1)

#1 ESTATE HOPE
CHRISTIANSTED, VI 00820

Date Completed	: 8/7/02	Owner	: HOVENSA
Drilling Method	: Solid Stem Auger	Location	: St. Croix Alumina
Driller	: Caribbean Drilling	Surface Elevation	: 35.05
Geologist	: D. Watterson		

Depth in feet	DESCRIPTION	GRAPHIC	USCS
0	Brown to red clayey FILL.		FL
	Red highly weathered LIMESTONE/CALICHE.		LS
5	Tan moderate weathered LIMESTONE.		LS
	Light tan/buff moderate LIMESTONE.		LS
10	Light tan/buff moderate weathered LIMESTONE, minor voids.		LS
15	Soft weathered LIMESTONE.		LS
	Moderate weathered LIMESTONE, minor voids, trace shell fragments.		LS
20	Hard weathered LIMESTONE.		LS
25	Blue/grey moderate weathered LIMESTONE.		LS
30	Hard drilling, no cuttings.		LS
35			
40			
45			
50			



Well Construction Information

WELL CONSTRUCTION

Hole Diameter	: 8 inch
Type of Augers	: Solid Stem Auger

WELL CASING

Material	: Fiberglass
Diameter	: 4 inch
Joints	: threaded

WELL SCREEN

Material	: Stainless Steel
Diameter	: 4 inch
Joints	: threaded
Opening	: 0.01 slot
Length	: 10 ft.
Sand Pack	: 20/30
Sand Pack Seal	: Bentonite Pellets
ANNULUS SEAL	: Cement Grout

NOTES

St. Croix Alumina
Observation Well

Measurable PSH encountered.

Survey Coordinates
to HOVIC Datum:
10222.70 North
5449.09 East

09-09-2002 D:\HOVENSA\BORINGS\vw-32.bor

GeoMonitoring Services
4123 Fifth Street
Brookshire, Texas 77423

Completion Date: February 11, 2003

Boring Number: **VW33**
Location: NW Side of Red Mud Impoundment

Project Name: St. Croix Alumina - DPPHC and PSPH Monitoring System
Project Number: SCARE

Client: Amerada Hess Corporation
Location: St. Croix Alumina

Sampler Type: 2 Ft Split Spoon Sampler
Inside Diameter: 2 Inches
Hammer Weight (LB): 100
Hammer Fall (IN): 24

Rig Type: Hollow Stem Auger
Bit Type: Barrel Two Prong
Total Depth: 88 Feet

Drilling Co.: Caribbean Drilling Company
Driller: Ken Eastman
Geologist: Rex Meyer

Hole Diameter: 10 Inches
Hole Overdrilled with 10" Auger

Screen Type: 0.01 Slot - 10'
Joints: Screw-Coupled
Diameter: 4"
Type: Fiberglass
Sand Type: Silica 20/30

Riser Type:
Joints: Screw-Coupled
Diameter: 4"
Type: Fiberglass
Stickup: 2.46 Feet

Location:
16887.91 N 3074.94 E Ground Level 81.85

DEPTH FROM GRADE (FT)	SAMPLE INTERVALS & RECOVERY RATES	OVM Levels (ppm)	Hammer Blows (To Go 6")	Pocket Penetrometer (Tons/Ft²)	WELL CONSTRUCTION	Matrix Munsell Color	LITHOLOGIC DESCRIPTION (Feet Below Surface Grade)
+3							
+2							
+1							Elevation of Top of Casing (TOC): 84.11 ' msl
0							
1							
2							
3							
4							
5	95% Recovery	0.2	15/12/11/15	NT	(Cement/Bentonite Grout)		Fill Caliche & Clay
6							
7							
8							
9							
10	95% Recovery of 4"	0.1	20/30/41/49	NT			Caliche
11							
12							
13							
14							
15	95% Recovery of 11.5"	0.1	28/32/52-5"	NT			Weathered Limestone
16							
17							
18							
19							
20	90% Recovery	0.1	17/18/12/10	NT			
21							
22							
23							
24							
25	90% Recovery	0.1	16/5/50-1"	NT			
26							
27							
28							
29							
30	No Recovery		50+ 1"	NT			
31							
32							
33							
34							
35	No Recovery		50-3"	NT			
36							
37							
38							
39							
40	85% Recovery	0.1	34/42/41/34	NT			Caliche 2.5YR 8/3 Pale Yellow with Clay
41							
42							
43							
44							
45	95% Recovery	0.0	16/13/14/14	<0.5			
46							
47							
48							
49							
50	100% Recovery	0.1	60-4"	<0.5			
51							
52							
53							
54							
55	100% Recovery	0.0	30/30/30/26	<0.5			
56							
57							
58							
59							
60	100% Recovery	0.0	12/30/19/12	<0.5			
61							
62							
63							
64							
65	100% Recovery	0.0	15/14/21/40-4"	<0.5			
66							
67							
68							
69							
70	100% Recovery	0.0	12/19/27/12	<0.5			
71					(Bentonite Pellets)		
72							
73							
74							
75	100% Recovery	0.0	14/139/50-4"	<0.5			Wet @ 75'
76							
77							
78					(20/30 Silica Sand)		
79							Saturated, Static @ 79.09'
80	90% Recovery	0.0	12/8/14/50-4"	<0.5			
81							
82							
83							
84							
85							
86							
87							
88							TD @ 88'
89							
90							

GeoMonitoring Services
4123 Fifth Street
Brookshire, Texas 77423

Completion Date: February 5, 2003

Boring Number: **VW34**
Location: 450' West of VW31
900' East of GM13

Project Name St. Croix Alumina - DPPHC and PSPH Monitoring System
Project Number: SCARE

Client: Amerada Hess Corporation
Location: **St. Croix Alumina**

Sampler Type: **2 Ft Split Spoon Sampler**
Inside Diameter: 2 **Inches**
Hammer Weight (LB): 100
Hammer Fall (IN): 24

Rig Type: **Hollow Stem Auger**
Bit Type: Barrel Two Prong
Total Depth: **30 Feet**

Drilling Co.: Caribbean Drilling Company
Driller: Ken Eastman
Geologist: Rex Meyer

Hole Diameter: 10 **inches** Hole Overdrilled with 10" Auger

Screen Type: 0.01 Slot - 10'
Joints: Screw-Coupled
Diameter: 4"
Type: Fiberglass
Sand Type: Silica 20/30

Riser Type: Fiberglass
Joints: Screw-Coupled
Diameter: 4"
Type: Fiberglass
Stickup: 2.26 Feet

Location:
9,933.17 N 4,765.90 E
Ground Elevation 19.98'

DEPTH FROM GRADE (FT)	SAMPLE INTERVALS & RECOVERY RATES	OVM Levels (ppm)	Hammer Blows (To Go 6")	Pocket Penetrometer (Tons/Ft²)	WELL CONSTRUCTIO	Matrix Munsell Color	LITHOLOGIC DESCRIPTION (Feet Below Surface Grade)
+3 +2 +1 0							**Elevation of Top of Casing (TOC): 22.24 ' msl**
1 2 3 4 5	90% Recovery	(Cement/Bentonite Grout) 0	6/14/8/10	2.25		Silty Clay	**Silty Clay** - 7.5 YR 6/6 *with some Limestone Fragments Clay is Plastic*
6 7 8 9 10	100% Recovery for 5.5"	0	78 for 5.5"	NA			**Weathered Limestone**
11 12 13 14 15	80% Recovery	(Bentonite Pellets) 4.8	36/30/32/22	N/A			*Damp at 14'*
16 17 18 19 20	85% Recovery	(20/30 Silica Sand) 6.2	36/70 for 5"	N/A			*Static @ 17.76* *Core Sample Saturated @ 20'*
21 22 23 24 25							**Very hard Limestone with Marl**
26 27 28 29 30							
31 32							

GeoMonitoring Services
4123 Fifth Street
Brookshire, Texas 77423

Completion Date: February 4, 2003

Boring Number: **VW35**
Location: 330' West of VW24
180' Southeast of VW22

Project Name St. Croix Alumina - DPPHC and PSPH Monitoring System
Project Number: SCARE

Client: Amerada Hess Corporation
Location: St. Croix Alumina

Sampler Type: 2 Ft Split Spoon Sampler
Inside Diameter: 2 Inches
Hammer Weight (LB): 100
Hammer Fall (IN): 24

Rig Type: Hollow Stem Auger
Bit Type: Barrel Two Prong
Total Depth: 69.5 Feet

Drilling Co.: Caribbean Drilling Company
Driller: Ken Eastman
Geologist: Rex Meyer

Hole Diameter: 10 Inches
Hole Overdrilled with 10" Auger

Screen Type: 0.01 Slot - 10'
Joints: Screw-Coupled
Diameter: 4"
Type: Fiberglass
Sand Type: Silica 20/30

Riser Type:
Joints: Screw-Coupled
Diameter: 4"
Type: Fiberglass
Stickup: 2.18 Feet

Location:
10404.79 N 5964.89 E -Ground Level @ 57.61'
Auger Sheared off & Recovered

DEPTH FROM GRADE (FT)	SAMPLE INTERVALS & RECOVERY RATES	OVM Levels (ppm)	Hammer Blows (To Go 6")	Pocket Penetrometer (Tons/Ft²)	WELL CONSTRUCTION	Matrix Munsell Color	LITHOLOGIC DESCRIPTION (Feet Below Surface Grade)
+3							
+2							
+1							
0							Elevation of Top of Casing (TOC): 59.79 ' msl
1							
2							
3							
4							
5	70% Recovery	0.0	5/9/12/13	NT	(Cement/Bentonite Grout)		Silty Clay - 2.5 YR 6/3
6							
7							
8							
9							White Chalky Limestone
10	70% Recovery	0.0	15/15/37/36	NT			Consolidated Limestone with Marl
11							2" Silty Red Brown Silty Clay @ 9.5' Layer
12							
13							
14							Caliche & Silty Clay
15	80% Recovery	0.0	7/14/10/11	NT			*Ferruginous ClayReddish Yellow (7.5 YR 7/6)*
16							*Caliche is gray to yellow white*
17							
18							
19							
20	85% Recovery	0.0	6/11/11/11	2.0			
21							
22							
23							
24							
25	95% Recovery	0.0	9/9/9/10	2.0			
26							
27							
28							
29							
30	65% Recovery	0.0	5/6/9/10	1.5			
31							
32							
33							
34							
35	60% Recovery	0.0	4/6/4/11	1.5			*2" Void at 35'*
36							
37							
38							
39	55% Recovery	0.0	14/18/8/18	N/A			Weathered Limestone
40							
41							
42							
43							
44	65% Recovery	0.0	5/4/11/7	1.5			Caliche & Silty Clay
45							*Ferruginous ClayReddish Yellow (7.5 YR 7/6)*
46							*Caliche is gray to yellow white*
47							
48					(Bentonite Pellets)		
49	85% Recovery	0.0	42/26/24/22				
50							
51	80% Recovery	0.0	18/14/16/16	1			Limestone and Clay
52							
53		6.0					
54	90% Recovery		6/8/13/6	<0.5			*Biostaining in Matrix*
55		54.0					*Matrix Saturated @ 55.4' – Hydrocarbon Odor*
56	90% Recovery	54.0	10/6/14/40	<0.5			*PSPH Film on Water <0.01'*
57							
58					(20/30 Silica Sand)		Hard Marl Limestone at 57'
59							*Hollow Stem -Sheared - But Recovered*
60							
61							
62							
63							
64							
65							
66							
67							
68							
69							
70							*TD Boring @ 69.5'*

GeoMonitoring Services
4123 Fifth Street
Brookshire, Texas 77423

Completion Date: February 7, 2003

Boring Number: **VW36**
Location: West Side of Red Mud Impoundment North of VW37

Project Name: St. Croix Alumina - DPPHC and PSPH Monitoring System
Project Number: SCARE

Client: Amerada Hess Corporation
Location: St. Croix Alumina

Sampler Type: **2 Ft Split Spoon Sampler**
Inside Diameter: 2 **inches**
Hammer Weight (LB): 100
Hammer Fall (IN): 24

Rig Type: **Hollow Stem Auger**
Bit Type: Barrel Two Prong
Total Depth: **69.5 Feet**

Drilling Co.: Caribbean Drilling Company
Driller: Ken Eastman
Geologist: Rex Meyer

Screen Type: 0.01 Slot - 10'
Joints: Screw-Coupled
Diameter: 4"
Type: PVC
Sand Type: Silica 20/30

Hole Diameter: **10 inches** Hole Overdrilled with 10" Auger
Riser Type:
Joints: Screw-Coupled
Diameter: 4"
Type: PVC
Stickup: 2.8 Feet

Location:
10457.74 N 2772.41 E Ground Level 50.73'

DEPTH FROM GRADE (FT)	SAMPLE INTERVALS & RECOVERY RATES	OVM Levels (ppm)	Hammer Blows (To Go 6")	Pocket Penetrometer (Tons/Ft²)	WELL CONSTRUCTION	Matrix Munsell Color	LITHOLOGIC DESCRIPTION (Feet Below Surface Grade)
+3							Elevation of Top of Casing (TOC): 53.53 ' msl
+2							
+1							
0							
1							Fill Limestone/Caliche
2							
3							
4							Weathered Limestone & Caliche
5	75% Recovery	0.2	12/12/64-4"	NT	(Cement/Bentonite Grout)		
6							
7							
8							
9							
10	90% Recovery	0.2	10/16/18/16	NT			
11							
12							
13							
14							
15	90% Recovery	0.4	22/54-4"	NT			Caliche with increasing Clay 10YR 3/6
16							
17							*10% Clay*
18							
19							40% Clay
20	85% Recovery	0.3	22/34/40/44	<0.5			
21							
22							
23							
24							3' Weathered Limestone Hard
25	95% Recovery	0.2	70-4"	NT			
26							
27							
28							
29							Caliche with 30% Clay
30	95% Recovery	0.4	52/50-4"	NT			Color Change to 7.5YR Redish Yellow
31							
32							Clay Content Increasing
33							
34							
35	100% Recovery	0.0	25/22/16/25	<0.5			
36							
37							
38							
39							
40	100% Recovery	0.0	55-4"	NT			
41							
42							
43							
44							
45	100% Recovery	0.0	18/15/5/16	<0.5			1' of Clayey Silt 44 to 45'
46			(Bentonite Pellets)				
47	85% Recovery	0.4	50/14/44/50-1"				Core Saturated @ 47.5' -- Static @ 48.09'
48							Coarse Limestone Chips
49							Limestone & Clay
50							
51							
52							
53			(20/30 Silica Sand)				
54							
55							
56							
57							
58							
59							
60							60.5' End of Boring
61							
62							

GeoMonitoring Services
4123 Fifth Street
Brookshire, Texas 77423

Completion Date: February 6, 2003

Boring Number: **VW37**
Location: West of Red Mud Impoundment South of VW36

Project Name: St. Croix Alumina - DPPHC and PSPH Monitoring System
Project Number: SCARE

Client: Amerada Hess Corporation
Location: **St. Croix Alumina**

Sampler Type: **2 Ft Split Spoon Sampler**
Inside Diameter: 2 **Inches**
Hammer Weight (LB): 100
Hammer Fall (IN): 24

Rig Type: **Hollow Stem Auger**
Bit Type: Barrel Two Prong
Total Depth: **69.5 Feet**

Drilling Co.: Caribbean Drilling Company
Driller: Ken Eastman
Geologist: Rex Meyer

Hole Diameter: 10 **inches** Hole Overdrilled with 10" Auger

Screen Type: 0.01 Slot - 10'
Joints: Screw-Coupled
Diameter: 4"
Type: PVC
Sand Type: Silica 20/30

Riser Type: PVC
Joints: Screw-Coupled
Diameter: 4"
Type: PVC
Stickup: 1.62 Feet

Location:
10188.86 N 2751.53 E
Ground Level at 50.24'

DEPTH FROM GRADE (FT)	SAMPLE INTERVALS & RECOVERY RATES	OVM Levels (ppm)	Hammer Blows (To Go 6")	Pocket Penetrometer (Tons/Ft²)	WELL CONSTRUCTION	Matrix Munsell Color	LITHOLOGIC DESCRIPTION (Feet Below Surface Grade)
+3 +2 +1 0							Elevation of Top of Casing (TOC): 51.86 ' msl
1 2 3 4 5	100% Recovery of 4"	0.0	50 for 4'	N/A	(Cement/Bentonite Grout)	Silty Clay	Red Brown Clay and Caliche fill
6 7 8 9 10	100% Recovery of 4"	0.0	60 for 4"	N/A			White Weathered Limestone Dry
11 12 13 14 15	100% Recovery of 11.5"	0.0	27/56 for 5.5'	N/A			
16 17 18 19 20	85% Recovery	0.0	16/14/39/26	N/A			
21 22 23 24 25	95% Recovery of 1.5"	0.1	70 for 1.5"	N/A			
26 27 28 29 30	100% Recovery of 22"	0.0	59/21/10/67-4"	N/A			Very Hard Limestone *Damp*
31 32 33 34 35	90% Recovery	0.0	7/10/13/50	1.5			*85% Caliche 10YR 8/4 15% clay 10YR 7/4*
36 37 38 39 40	55% Recovery	0.0	2/8/2/16	1			
41 42 43 44 45	85% Recovery	0.0	27/15/41/50-4"	1.5			Change to White Weathered Limestone with Silty Clay *Shell Fragments @ 45'*
46 47 48 49 50	85% Recovery	0.0	4/6/3/6	PP 2.25	(Bentonite Pellets)	Silty Clay	Red Brown Clay - Dry Static @ 48.87
51 52 53 54 55					(20/30 Silica Sand)		Caliche with Clay - Saturated
56 57 58 59 60							
61 62							*TD Boring @ 60.25'*

GeoMonitoring Services
4123 Fifth Street
Brookshire, Texas 77423

Completion Date: N/A
Report Date: Mar-90

Boring Number: **MMX**
Location: South of Plant Entrance
North of VW35

Project Name: St. Croix Alumina - DPPHC and PSPH Monitoring System
Project Number: SCARE

Client: Amerada Hess Corporation
Location: **St. Croix Alumina**

Sampler Type:
Inside Diameter:
Hammer Weight (LB):
Hammer Fall (IN):

Rig Type:
Bit Type:
Total Depth: **100 Feet**

Drilling Co: Unknown
Driller: Unknown
Geologist: Tahal Consulting Engineers, LTD

Screen Type: Not Provided
Joints:
Diameter: 6"
Type: PVC
Sand Type:

Hole Diameter:
Riser Type:
Joints:
Diameter: 6"
Type: PVC
Stickup: 1.76 Feet

Location:
Ground Elevation 63.39'
North: 10,757.4 - East: 6063.56

DEPTH FROM GRADE (FT)	SAMPLE INTERVALS & RECOVERY RATES	OVM Levels (ppm)	Hammer Blows (To Go 6")	Pocket Penetrometer (Tons/FT²)	WELL DIAGRAM	Munsell Color	LITHOLOGIC DESCRIPTION (Feet Below Surface Grade)
+3							
+2							
+1							**Elevation of Top of Casing (TOC): 66.15' msl**
0							
1		N/A	N/A	N/A			
2							
3							
4							
5			(Cement/Bentonite Grout)				Top Soil
6							
7							
8							
9							
10							Chalky Marl
11							
12							
13							
14							
15							Limestone Cobbles with Clay
16							
17							
18							
19							Less Clay with Limestone Cobbles
20							Limestone - Description Illegible
21							
22							
23							
24							
25							Clay with Limestone Cobbles
26							
27							
28							
29							
30							Clayey & Chalky Marl - White to Tan
31							
32							
33							
34							
35							Brown Clay
36							
37							
38							
39			(Cement/Bentonite Grout)				Brown Clay with Increasing Limestone Cobbles
40							
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							Red Clay
56							
57							
58							
59							
60			(Bentonite Pellets)				Chalky Limestone
61							
62							
63							Static @ 61.04 in Feb 2003
64							
65							Dense Clay with Limestone Cobbles
66							
67							
68							
69							
70							Dense Clay with Limestone Cobbles
71							
72							
73							
74							
75							Same - Dense Clay with Limestone Cobbles
76							
77							
78							Increasing (Description Illegible) Limestone
79							
80							Mass Fractures
81							
82							
83							
84							
85							
86							
87							
88							Dense Limestone with Fractures
89							
90							
91							
92							
93							
94							Dense Limestone with Fractures
95							
96							
97							
98							
99							
100			(20/30 Silica Sand)				100' End of Boring

RADIOLOGICAL ASSESSMENT REPORT

ST. CROIX ALUMINA (RENAISSANCE PARK) SITE

ST. CROIX, U.S. VIRGIN ISLANDS

May 2012



Prepared By

Radiation and Indoor Air Branch
Division of Environmental Planning and Protection

Prepared For

Removal Action Branch
Emergency and Remedial Response Division

Project Contacts: David Rosoff, Project On-Scene Coordinator
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LIST OF ACRONYMS

ADP	Ash Disposal Pond
ALCOA	Aluminum Company of America
ASPECT	Airborne Spectrophotometric Environmental Collection Technology
bgs	Below Ground Surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR	Code of Federal Regulation
cpm	Counts per Minute
EPA	United States Environmental Protection Agency
eRa	Equivalent Radium
eTh	Equivalent Thorium
eU	Equivalent Uranium
FBS	Former Bauxite Storage Shed
GPS	Global Positioning System
HRS	Hazard Ranking System
IA	Integrated Assessment
LCP	Lower Cooling Pond
MCL	Maximum Contaminant Level
µg/L	Microgram per Liter
µR/h	Microroentgen per Hour
mrem/yr	Millirem per Year
NaI	Sodium Iodide
NaI(Tl)	Sodium Iodide Thalium
NCP	National Oil and Hazardous Substances Pollution Contingency Plan (EPA, 1997)
NESHAP	National Emission Standards for Hazardous Air Pollutants
OSWER	Office of Solid Waste and Emergency Response
Pb-206	Lead 206
Pb-208	Lead 208
pCi/g	Picocurie per Gram
pCi/L	Picocurie per Liter
pCi/m^2-sec	Picocuries per Square Meter per Second
Ra-226	Radium 226
Ra-228	Radium 228
RAT	Rapid Assessment Tools
RMA	Red Mud Disposal Area A
RMB	Red Mud Disposal Area B
RMS	Red Mud Settling Pond
Rn-220	Radon 220 (thoron)
Rn-222	Radon 222
RSE	Removal Site Evaluation
SARA	Superfund Amendments and Reauthorization Act of 1986

LIST OF ACRONYMS (Concluded)

SCA	St. Croix Alumina, LLC
SCRG	St. Croix Renaissance Group, LLLP
SDWA	Safe Drinking Water Act
SLERA	Screening Level Ecological Risk Assessment
TENORM	Technologically-Enhanced, Naturally-Occurring Radioactive Material
Th-230	Thorium 230
Th-232	Thorium 232
TPDES	Territory Pollution Discharge Elimination System
U-234	Uranium 234
U-235	Uranium 235
U-238	Uranium 238
UCP	Upper Cooling Pond
USVI	United States Virgin Islands
VIALCO	Virgin Islands Aluminum Company
VIDPNR	Virgin Islands Department of Planning and Natural Resources
WL	Working Level

EXECUTIVE SUMMARY

The United States Environmental Protection Agency's (EPA), Region II Superfund Pre-Remedial and Removal Programs are performing an Integrated Assessment (IA) of the St. Croix Alumina Site (the Site) in St. Croix, U.S. Virgin Islands (USVI). As part of the IA, a radiological assessment is specifically being conducted to support the Removal Site Evaluation (RSE) for the Site. An Airborne Spectrophotometric Environmental Collection Technology (ASPECT) gamma flyover survey was conducted in July 2011 to aid in identifying areas of potential radiological concern in support of subsequent ground-based radiological investigations. The ASPECT identified the Red Mud Disposal Area A (RMA) within the Site as the main location of radiation anomalies.

Subsequently, in September 2011, as part of the overall IA fieldwork, EPA performed ground-based radiological assessment of the Site and the adjacent residential communities (Harvey and Matthews Charles) located north of the Site. Radiation levels and radionuclide concentrations within the Site exceeded the action levels generally used at Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) cleanup sites under both residential and industrial settings. The primary contaminants at the Site are thorium-232 (Th-232), which has a half-life of 14 billion years, and its decay products. The gamma radiation levels measured in the residential communities were within the natural background levels.

The average background exposure rate was measured at 3.6 micro-Roentgen per hour (μR/h). The exposure rates within the RMA ranged from 22 to 61 μR/h. All the red mud related exposure rate measurements collected from the Site were in excess of the exposure rate of 20 μR/h specified in 40 CFR 192.12(b)(2) that is set as a goal to be achieved after a remediation of a given site. The sum of thorium (Th-230 and Th-232) and the sum of radium (Ra-226 and Ra-228) background concentrations are less than 1 pico-Curie per gram (pCi/g). The sum of thorium (Th-230 and Th-232) and the sum of radium (Ra-226 and Ra-228) concentrations in essentially all red mud and sediment samples (100 total samples) taken from the Site ranged from 6 to 29 pCi/g. Such concentrations are in excess of the residential and industrial 5 pCi/g limit specified in 40 CFR 192. In surface water the sum of radium concentrations as high as 27 pCi/L were detected, indicating the transport of radiological contaminants from the northern to the southern parts of the Site via surface water runoff, resulting from rain events. The

radionuclide concentrations in all on-site monitoring wells were well below the Maximum Contaminant Level (MCL) specified in the Safe Drinking Water Act (SDWA).

The radionuclide concentrations found on-site exceed EPA risk-based guidelines for residential and industrial use scenarios for chronic, long-term exposures. However, an imminent and substantial endangerment is not anticipated as a result of exposure to site-related radiological contaminants under the current use scenario. Human exposure to radiation is currently limited because areas impacted by red mud are not frequented by workers or trespassers. There is not a currently completed chronic health effect exposure pathway. However, the presence of such a large volume of radioactive material on-site requires that future land use be considered prior to any remediation or redevelopment efforts. Exposures to these materials may increase the risk of developing a radiogenic cancer. This carcinogenic risk is a chronic, or long-term health risk. Future health risks would be reduced by implementing appropriate engineering controls at the Site.

Additional data collection is necessary to evaluate the potential for contaminant releases to off-site areas. Specifically, radon and thoron gas monitoring both on- and off-site is necessary to complete the RSE. It is also recommended that water and sediment in cisterns within the Harvey community be sampled for radionuclides.

1.0 INTRODUCTION

The United States Environmental Protection Agency (EPA) is performing an Integrated Assessment (IA) at the St. Croix Alumina Site (the Site) in St. Croix, United States Virgin Islands (USVI). The IA is being conducted under the Authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA). The IA includes the collection of environmental data to support both the Superfund Pre-Remedial Hazard Ranking System (HRS) process and the Superfund Removal Program's Removal Site Evaluation (RSE). The IA sampling at the Site took place between September 12 and September 23, 2011. Part of the data collection included sampling and analysis of environmental media (waste material, soil, sediment, surface water and groundwater) for radiological assessment. The purpose of the radiological assessment is to determine Site conditions in terms of radioactivity and the potential for radioactive material migration both on- and off-site. The focus of this report is to discuss results of the radiological samples collected during the IA. Other chemical data collected during the IA sampling are addressed in the Weston Solutions, Inc. report entitled *Expanded Site Inspection and Removal Assessment Report, St. Croix Alumina (Renaissance Park) Site, St. Croix, U.S. Virgin Islands (ESIRA),* dated May 2012.

The Site was a former aluminum ore refinery that extracted alumina from bauxite. Bauxite is a naturally occurring, heterogeneous material composed primarily of one or more aluminum hydroxide minerals (principally gibbsite, boehmite, and diaspore) plus various mixtures of silica (SiO_2), iron oxide (Fe_2O_3), titania (TiO_2), aluminosilicates (clay, etc.), and other impurities in trace amounts. Bauxite was refined on-site using the Bayer process, which involved drying, crushing, and grinding of the ore; dissolution of alumina with caustic soda at high temperatures and pressures; separation and on-site disposal of the undigested solid residues; precipitation as alumina hydrate; and washing, filtration, and calcination of the hydrate to form crystalline alumina (Al_2O_3).

The principal waste generated by bauxite processing was red mud, which consists primarily of the undigested metal oxides that precipitate and settle out of the process solution. Red

mud contains elevated levels of metals and has a pH ranging from 10 to 12 due to the use of caustic soda during the extraction process. Red mud can also contain low levels of Technologically-Enhanced, Naturally-Occurring Radioactive Material (TENORM), usually from the thorium and uranium series radionuclides that are present in some bauxite ores. Other metals constituents may include barium, boron, cadmium, chromium, cobalt, gallium, lead, scandium, and vanadium. The types and concentrations of minerals present in the mud depend on the composition of the ore and processing conditions. The use of sodium hydroxide to dissolve aluminum oxide from the ore caused lower solubility compounds, including thorium and uranium, to concentrate in the residues (*i.e.*, red mud).

1.1 Site Background

The Site background details reported herein are based on the ESIRA. The Site is located within the industrial corridor along the south-central coast of St. Croix, United States Virgin Islands (USVI). The Site, which consists of several parcels and has a total surface area of approximately 1,250 acres, is currently owned by St. Croix Renaissance Group, LLLP (SCRG). The property is zoned for industrial use and is bordered by the HOVENSA oil refinery to the east; USVI government property (the Container Port and Molasses Pier) to the southeast; the Caribbean Sea to the south; the Anguilla Dump, the Randall "Doc" James Racetrack, and the Henry E. Rohlsen Airport to the west; and the Bethlehem Village/Profit Hills (Harvey) and Estate Profit (Matthews Charles) residential neighborhoods across a four-lane highway to the north. A Site Location Map and Site Features Map are presented in Appendix A, Figures 1 and 2, respectively.

The alumina refinery operated from 1968 through December 2000 under various owner/operators including Harvey Aluminum, Inc. and Martin Marietta Alumina from 1968-1985; Virgin Islands Aluminum Company (VIALCO) from 1989-1995; and St. Croix Alumina, LLC (SCA), a subsidiary of Aluminum Company of America (ALCOA), from 1998-2001. SCRG purchased the property from ALCOA in 2002 and has since begun redevelopment of the Site, including the removal of former refinery tanks and equipment. In addition, the Diageo rum distillery located on the northern

portion of the property was constructed in 2009-2010 and began operating in November 2010.

From the onset of operations in 1968 until the early 1970s, the red mud was deposited on-site in red mud ponds, designated herein as Red Mud Disposal Area B (RMB). This area is located on the central portion of the Site, south of the former refinery (Appendix A, Figure 2). RMB, which was built on top of a mangrove swamp, covers approximately 81 acres and consists of seven disposal cells surrounded by perimeter dikes constructed of carbonate material. The red mud deposited in RMB was approximately 30 percent solids and 70 percent liquids, with the liquids being a mixture of caustic soda and seawater. The dikes were constructed of carbonate sand mixed with clay to heights of 15 to 30 feet above existing grade. Excess liquid drained to a dewatering pond in the southeastern portion of the source area (this pond was subsequently used for bottom ash disposal, as described below). An estimated total of 1,229,149 tons of red mud were deposited into RMB. The disposal area was partially covered with limestone fill and some of it has re-vegetated, but there are several exposed areas and associated runoff routes. Direct-push borings completed in 2010 encountered red mud to depths greater than 24 feet below ground surface (bgs) in RMB.

Beginning in the early 1970s, extensive amounts of red mud were placed in an area in the northwest corner of the Site, designated herein as Red Mud Disposal Area A (RMA) (Appendix A, Figure 2). Due to a modification in the separation process, the composition of the red mud slurry changed at that time to 50 percent solids and 50 percent liquids, with the liquids still being a mixture of caustic and seawater. After 1983, the slurry also included fly ash from the coal-fired boiler. RMA was subdivided into seven disposal cells of diked red mud that covered approximately 62 acres. The red mud slurry was deposited in RMA using a process called “dry stacking”, whereby the slurry was pumped into the RMA cells to form a natural slope and allowed to dry for about 6 months. The residue was then bulldozed and compacted. An estimated total of 4,613,449 tons of red mud were deposited into RMA. Boreholes completed in 2006 indicated red mud thicknesses of 28 to 60 feet bgs within RMA. The surface of

the RMA red mud is practically devoid of vegetation, leading to massive erosion and runoff from this area since 2001. There was a documented release of red mud to mangrove swamps to the south in 2002, and red mud-laden runoff continues to flow overland into the on-site Red Mud Settling Pond (RMS) and the Upper Cooling Pond (UCP).

Red mud in both disposal areas has been shown to maintain high pH levels and contain elevated levels of arsenic, chromium, mercury, selenium, and vanadium. A 1993 analysis of red mud indicated the presence of elemental thorium and uranium.

Other wastes generated as a result of power production were also deposited in areas of the Site. As described above, fly ash from the coal-fired boiler was mixed with red mud prior to disposal in RMA beginning in 1983. The bottom ash from the coal-fired boiler was deposited in the former RMB dewatering pond, designated herein as the Ash Disposal Pond (ADP). Historic laboratory analysis of waste samples from ADP has indicated the presence of arsenic, chromium, mercury, selenium, and vanadium. A direct-push boring completed in 2010 encountered black ash to a depth of 15.5 feet in the ADP.

The Former Bauxite Storage Area (FBS) located on the eastern portion of the Site is a large open air and roofed shed where bauxite ore was stored while the alumina refinery was operational. When the refinery ceased operations, some unprocessed bauxite was left in the FBS. Alumina and red mud from the decommissioning of tanks and other equipment were added to the bauxite pile upon shutdown, and the FBS was used to stage some debris. The FBS shed currently contains a pile with a maximum height of about 15 feet that covers approximately 1 acre. The pile consists of a mixture of red mud, alumina, bauxite, and debris, with residual red mud from equipment decommissioning operations covering the surface.

The alumina refinery used approximately 50 million gallons per day of cooling water pumped from the Alucroix Channel and subsequently discharged into two ponds constructed in the early 1970s: the 30-acre UCP and the 150-acre Lower Cooling Pond

(LCP). These caliche-lined holding basins on the western and southern portions of the property were constructed for cooling water retention, treatment of process water and retention, and treatment of storm water. The LCP was initially constructed with twenty outfalls, however; silting problems occurred which plugged the outfalls. One primary discharge point to the shipping channel has been used since 1981. This outfall is regulated through a Territory Pollution Discharge Elimination System (TPDES) permit issued by Virgin Islands Department of Planning and Natural Resources (VIDPNR) and is designated as Outfall 001A.

1.2 Aspect Investigation

In June 2011, EPA requested the Airborne Spectrophotometric Environmental Collection Technology (ASPECT) to conduct radiological surveys over the Site and surrounding areas. The ASPECT flyover survey was conducted on July 19 and 21, 2011. The ASPECT flyover results were provided in the EPA report titled *Aerial Chemical and Radiological Surveys, St. Croix Alumina and HOVENSA LLC Sites, St. Croix, Virgin Islands*, dated August 2011.

Over 2,300 one-second spectra were collected during the radiological surveys. Results of the survey indicated thorium concentrations in the RMA portion of the Site that were above background levels. The estimated concentrations reported by the ASPECT flyover survey for equivalent thorium-232 (eTh) and equivalent uranium/radium (eU/eRa) in RMA were 7 picocuries per gram (pCi/g) and 1 pCi/g, respectively. The eTh and eU concentrations determined from the aerial measurements in the neighborhood areas to the north were about 0.18 pCi/g and 0.09 pCi/g, respectively. These measurements are consistent with background levels on St. Croix and other soils in this region of the world. The average gamma exposure rate as estimated by ASPECT in background areas surrounding the Site was about 2 microRoentgens per hour (μR/h). This measurement excluded contributions from cosmic radiation at levels of about 3.2 μR/h. The average exposure rate measurement taken over RMA was 17 μR/h (20.2 μR/h including cosmic contribution). These results suggested that the average exposure rate from the red mud is about 9 times higher than local background.

The ASPECT results are expected to be lower than the actual ground surface exposure rate results because of averaging over the larger aerial extent. The purpose of the ASPECT fly over was to provide information about the homogeneity or heterogeneity of radioactivity at the Site and to aid in determining which areas would need to be further investigated or focused on during ground-based radiation surveys.

1.3 Ground Radiological Assessment Objectives

The ground radiological assessment completed as part of the IA had the following objectives:

- Determine the presence and characterize the levels of radioactive materials in the red mud.
- Determine the extent of radioactive contamination at the Site in other media such as surface water, sediment, and ash.
- Determine if radiological contamination exists in on-site groundwater wells.
- Determine if additional on-site radiation monitoring or sampling is necessary.
- Determine if off-site radiation sampling is necessary.
- Provide data that can be used to evaluate human health risks associated with radiation from the Site and make appropriate recommendations.

2.0 RADIOLOGICAL INVESTIGATIONS

The ASPECT flyover gamma survey was conducted to focus the ground-based field investigations that would provide the information necessary to perform the RSE. The ground survey activities were designed to characterize the radionuclide content of several media including surface and subsurface waste (red mud, ash, and sediment), surface water, and groundwater. The following sections discuss the different types of radiological sampling conducted on- and off-site.

2.1 Radiological Background Surveys

A background study area located on the northeast portion of the Site was used to determine the background gamma count rate, background exposure rate levels, and the soil background radionuclide concentrations. Soil background levels in non-impacted areas on-site are compared to radionuclide concentrations in areas impacted by red mud and other potential contamination to be able to assess increases above local background due to site-related conditions.

2.2 Gamma Count Rates and Exposure Rates

In order to identify any potential off-Site migration of radiological contaminants, gamma count rate surveys were conducted along the northern fence line of the Site and off-site in Matthews Charles (Pedro Cruz Baseball Stadium and recreational area) and in various areas within the Harvey community (Bethlehem Village and Profit Hills). The gamma count rate surveys were conducted using the EPA Rapid Assessment Tools (RAT) system, which consists of a Ludlum Model 2241 Scaler/Ratemeter coupled with Ludlum 44-10 (2" x 2") NaI gamma scintillation detector and a Global Positioning System (GPS). The surface gamma count rate data over the surveyed areas were then plotted and compared to the surface background gamma radiation levels.

Surface gamma exposure rate measurements were also collected on-site on the red mud pile located in RMA. The exposure rate measurements were collected on contact with ground surface and at waist height (1 meter above ground surface). The on-site gamma exposure rate surveys were conducted using a Ludlum Model Ludlum Model 19 MicroR

survey meter with a built-in 1" x 1" NaI(Tl) Gamma Scintillator. The exposure rate data along with the coordinates were logged on a GPS unit. The exposure rate data were then used to generate isopleths of the surface exposure rates over RMA.

2.3 Surface and Subsurface Volumetric Sampling

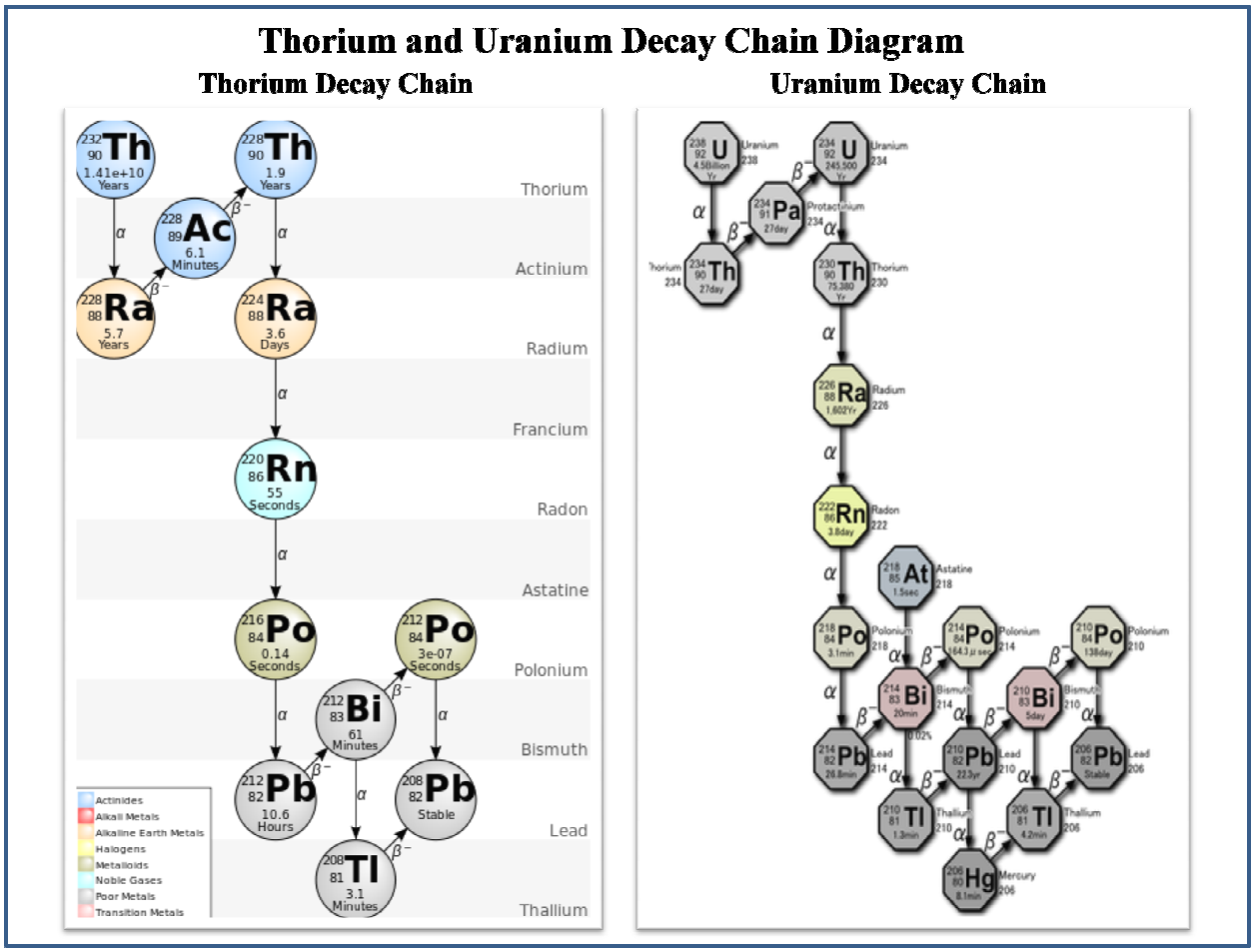
A total of 111 volumetric samples, including duplicate samples, were collected for radiological analysis. These samples included the following media:

- Eleven (11) background soil samples: 10 soil samples were collected from the northeast portion of the Site. One background soil sample was collected off-site near the entrance of the Anguilla Dump located west of the Site;
- Seven (7) samples collected from the RMA Depositional Area located south of RMA;
- Forty-four (44) red mud samples collected from RMA. Subsurface samples in RMA were collected by horizontal coring from within existing crevices that were caused by erosion in order to facilitate sample collection at depth;
- Twenty-two (22) red mud samples collected from RMB;
- Four (4) red mud samples collected from the FBS ;
- Five (5) ash samples collected from the ADP area;
- Six (6) Sediment samples collected from the RMS, the ADP area, the LCP, and the UCP;
- Five (5) surface water samples collected from RMA, the RMS, and the UCP; and
- Seven (7) groundwater samples collected from seven existing monitoring wells located on the Site.

3.0 RELEVANT RADIATION FACTS

There are three naturally occurring radioactive decay chains which are known as the uranium chain (of which Ra-226 is a member), the thorium chain (of which Ra-228 is a member), and the actinium chain. The radionuclides of concern present in site-related red mud wastes are primarily members of the thorium chain and to a lesser degree of the uranium chain.

The uranium and thorium decay chain diagram is shown below. There are 14 unique radionuclides in the uranium chain and 11 unique radionuclides in the thorium chain which precede the formation of stable lead (Pb-206 or Pb-208). Alpha, beta, and gamma radiation are emitted from the various members of the two chains. One of the more prevalent radionuclides is Ra-226, the sixth member of the uranium chain. It emits alpha particles and gamma rays and has an approximate half-life of 1,620 years. Its immediate decay product is gaseous radon (Rn-222; half-life of 3.8 days). An estimated average of 229 millirem per year (mrem/yr) would result from the inhalation of the decay products of indoor Rn-222 gas when present in background concentrations. Radon-222 is produced by the decay of Ra-226. Radon gas is mobile and commonly migrates from soil into structures. An elevated Ra-226 concentration in soil underlying and adjacent to a structure will often result in a high concentration of indoor radon, especially in the lowest level of the structure. Since radium is ubiquitous in soil, there is always some level of radon in both outdoor and indoor air. The national average of indoor radon concentrations is approximately 1.3 picocurie per liter (pCi/L) in the absence of any enhanced radium sources.



The largest contribution to the background radiation dose received by most people results from the decay of radon progeny, which can reach significant concentrations in indoor air where they may become electrostatically attracted to respirable dust particles. Once inhaled, the particles may deposit within the bronchial passages where the radon progeny will decay, irradiating nearby tissue primarily with alpha particles (and to a lesser extent with beta particles and gamma rays).

The thorium series radionuclides include a different gaseous isotope of the element radon-220, commonly known as thoron, which has a half-life of 56 seconds. Thoron gas (Rn-220, a decay product of Th-232) is generally not a major contributor to the inhalation dose due to the extremely short half-lives of thoron and its decay products. However, if there are elevated sources of thorium-bearing materials within, beneath, or adjacent to a structure (such as the thorium and Ra-228 found in the red mud), thoron gas and its decay products may contribute a significant radiation dose via the inhalation pathway.

4.0 RELEVANT REQUIREMENTS AND THRESHOLDS FOR RADIOLOGICAL LEVELS

This section is included for data comparison purposes to assess the radiological levels found at the Site against relevant federal requirements and thresholds. Table 4-1 below lists the relevant requirements in thresholds that are used for guidance purposes to evaluate the data collected at the Site.

Table 4-1: Relevant Requirements and Thresholds for Radiological Levels

Type	Pertinent Standard or Guideline	Source
Radon and Thoron Indoor Concentration	4 pCi/L	EPA 1992
Radon/thoron decay progeny	0.02 Working Level (WL)	40 CFR 192
Radon and Thoron Outdoor Concentration	20 pCi/m^2-sec	40 CFR 61 (Rad NESHAP), Subpart W
Soil: Radium Other Radionuclides Exposure Rate	 Sum of Ra-226 and Ra-228: 5 pCi/g Sum of Th-230 and Th-232: 5 pCi/g 20 μR/h	40 CFR 192
Groundwater: Radium Gross alpha, Beta and gamma Uranium	 Sum of Ra-226 and Ra-228: 5 pCi/L, Adjusted gross alpha (Not including radon or uranium): 15 pCi/L, Beta/gamma: 4 mrem/year Total uranium: 30 μg/L	Safe Drinking Water Act (SDWA)
All Pathways	Cancer Risk range E-6 to E-4 or 15 mrem/yr	OSWER Directive No. 9200.4-18

The EPA Office of Solid Waste and Emergency Response (OSWER) Directive No. 9200.4-25, *Use of Soil Cleanup Criteria in 40 CFR Part 192 as Remediation Goals for CERCLA sites* (USEPA, 1998a), describe the relevance at CERCLA sites of the 40 CFR Part 192 standards that establish cleanup levels at uranium mill tailing sites. When thorium and/or radium contaminants are present in soil at a site, the 5 pCi/g surface concentration for radium may be suitable if found to be protective, based on Site use scenarios, receptors, and exposure pathways. Because the radioactive waste residues located at the Site are similar to

uranium mill tailings waste, the 5 pCi/g radium standard is appropriate and relevant for use as comparison criteria for the Site. OSWER Directive No. 9200.4-25 also addresses waste that contains commingled radium and thorium such as the waste residues found at the Site. The 5 pCi/g in 40 CFR Part 192 standard for radium pertains to the sum of the concentrations of Ra-226 and Ra-228. Compliance with the standard mandates that Th-230 (the parent radionuclide of Ra-226) and Th-232 (the parent radionuclide of Ra-228) must be limited to the same concentrations as their radium decay products to prevent future buildup (due to radioactive in-growth) of the radium isotopes to concentrations that exceed the standard. Therefore, the standards also apply to the sum of Th-230 and Th-232. The exposure rate of 20 μR/h specified in 40 CFR 192.12(b) (2) is set as the goal to be achieved after the remediation of a given site.

Risks due to exposure to radon/thoron and their progeny (40 CFR Part 192 – 0.02 WL) may need to be evaluated depending on the Site's future use. EPA has established indoor exposure guidelines in the 1992 Citizen's Guide to Radon (USEPA, 1992a). The National Emission Standards for Hazardous Air Pollutants (40 CFR 61), subpart W, sets standards for protecting the public and the environment from the emission of Rn-222 from uranium mills and their associated tailings. The standard limits the Rn-222 emissions rate to 20 picocuries per square meter per second (20 pCi/m^2-sec).

EPA has also adopted a policy of establishing dose-based and risk-based guidance for limiting the risk to the general public from exposure to residual radioactivity. OSWER Directive No. 9200.4-18 (1997), *Establishment of Cleanup Levels for CERCLA Sites with Radioactive Contamination,* advises that if a dose assessment is conducted at a site, then an effective dose equivalent of 15 mrem/yr above background should generally be the maximum dose limit for humans. This annual dose would achieve a lifetime risk level of approximately 3×10^{-4}, which is a level generally considered protective and consistent with the risk reduction objectives of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) (EPA, 1997). Since annual dose equivalent (from all pathways) cannot be directly measured, dose assessment models must be utilized to relate medium-specific radionuclides of concern to an annual dose under a defined, appropriate land use

scenario. The 15 mrem/yr dose equivalent is a guidance level that is used to help establish cleanup levels for radioactively contaminated sites.

The relevant requirements and thresholds discussed above can be used as a reference to evaluate the IA data; however, annual doses and lifetime risk levels may need to be evaluated at the Site through a baseline human health risk assessment based on current and future use scenarios. Typically, EPA generates cleanup levels for radiological sites based on a site-specific risk assessment process.

5.0 NATURE AND EXTENT OF CONTAMINATION

The radioactive contaminants of concern at the Site are all naturally occurring constituents in most rocks and soils. Most soils and rocks indigenous to the northeast United States have thorium, radium, and uranium concentrations ranging from 0.5-1 pCi/g. Caribbean soils typically exhibit less than 0.5 pCi/g of these radionuclides. The background concentrations for Th-232 and eU/eRa (equivalent uranium and radium), determined from the ASPECT flyover survey in the neighborhood areas to the north of the Site, were about 0.09 pCi/g and 0.18 pCi/g, respectively. The ASPECT background measurements for thorium and uranium are reasonably consistent with those found in Cuba (0.09 pCi/g and 0.32 pCi/g, respectively). Background sources of radiation include terrestrial, cosmic, cosmogenic, and internally deposited radionuclides. The terrestrial component consists of several radionuclides including all members of the thorium and uranium decay chains, which are the radionuclides of potential concern at the Site.

On-site field investigations included surface gamma scans, exposure rate measurements, surface and subsurface soil/waste sampling (*i.e.,* red mud, ash, and sediment), and surface water and groundwater sampling. Only gamma scans were conducted in off-site areas.

5.1 Background Surveys

Background surface gamma count rate and exposure rate surveys were performed on the northeast portion of the Site. The results of the background gamma count rate and exposure rate surveys are shown in Appendix B, Table 5-1 and Table 5-2, respectively. The average background gamma count rate and exposure rate were approximately 5200 counts per minute (cpm) and 3.6 μR/h, respectively. Background soil samples were also collected from the northeast portion of the Site and from near the entrance to the Anguilla Dump located west of the Site. The results of the background soil samples are shown in Appendix B, Table 5-3A and Table 5-3B. Table 5-3A shows the results of the gamma spectroscopy analyses for Th-232, Ra-226, Ra-228, and U-238. Table 5-3B shows the results of isotopic analyses for Th-230, Th-232, U-234, U-235, and U-238. Since the isotopic analyses by alpha spectroscopy are generally more accurate than the gamma spectroscopy analyses, only Ra-226 and Ra-228 results were evaluated from the

gamma spectroscopy analyses along with the thorium and uranium alpha spectroscopy analyses. The background radionuclide concentrations in this evaluation are listed in Appendix B, Table 5-3C. The background concentrations of Th-230 and Th-232 are 0.46 and 0.36 pCi/g, respectively. The background concentrations of Ra-226 and Ra-228 are 0.28 and 0.34 pCi/g, respectively. The background concentrations of U-234, U-235, and U-238 are 0.23, 0.02, and 0.23 pCi/g, respectively. The location and results of the background soil samples are depicted in Appendix A, Figure 8.

5.2 Off-Site Surface Gamma Surveys

A total of 3293 gamma count rate measurements were collected off-site in the neighboring residential communities (Bethlehem Village, Profit Hills, and Matthews Charles). The gamma count rate survey results collected in Harvey (Bethlehem Village and Profit Hills) ranged from 1160 to 3440 cpm (refer to Appendix A, Figure 4 Appendix B, Table 5-4). The gamma count rate survey results for the Pedro Cruz baseball field in Matthews Charles ranged from 1450 to 2800 cpm (refer to Appendix A, Figure 5 and Appendix B, Table 5-5). The gamma count rate survey results collected from the Pedro Cruz recreational area in Matthews Charles ranged from 1050 to 2770 cpm (refer to Appendix A, Figure 6 and Appendix B, Table 5-6). All surface gamma survey results collected in Harvey and Matthews Charles are below the average background gamma radiation levels measured in the non-impacted northeastern portion of the Site (*i.e.*, less than 5200 cpm).

5.3 On-Site Surface Gamma Count Rate and Exposure Rate Surveys

The surface gamma count rate survey results conducted along the northern fence line of the Site ranged from 1790 to 6810 cpm (refer to Appendix A, Figure 3 and Appendix B, Table 5-7). A total of 433 data points were measured along the Site's northern fence line. Six of those data points exceeded the average background gamma count rate and only two data points exceeded the average background by two standard deviations. We can conclude with 95% confidence that the latter two data points are distinguishable from the background level. It should be noted that the gamma count rate increased when the survey scan reached the northwestern corner of the Site, approximately 200 feet from the northwest corner of the RMA.

The on-site surface exposure rate survey focused on the RMA. The exposure rate measurements were collected on contact with the mud surface and at a height of one meter above the ground surface. The exposure rate data are shown in Appendix B, Table 5-8. The contact exposure rate measurements range from 24 to 61 μR/h. The one meter exposure rate measurements range from 22 to 58 μR/h. Both sets of measurements are essentially the same (*i.e.,* statistically indistinguishable from each other), reflecting the large expanse and volume of the red mud. The exposure rate measurements were approximately seven to seventeen times above the average background exposure rate of 3.6 μR/h. The exposure rate of 20 μR/h specified in 40 CFR 192.12(b) (2) is set as the goal to be achieved after the remediation of a given site. The contact exposure rates from the RMA survey are shown in Appendix A, Figure 7.

5.4 Soil/Waste (Red Mud/Ash) Sampling

The soil/waste samples comprised three matrices; red mud, sediment, and ash. The results from the analyses of the samples are listed in Appendix B, Table 5-9A (gamma spectroscopy analyses) and Table 5-9B (isotopic analyses by alpha spectroscopy). Since the isotopic analyses are generally more accurate than the gamma spectroscopy analyses, only Ra-226 and Ra-228 results will be evaluated from the gamma spectroscopy analyses. The net radionuclide concentrations (after subtracting the background concentrations) in this evaluation are listed in Appendix B, Table 5-9C. The following paragraphs provide summary descriptions of the results shown in Appendix B, Table 5-9C. The locations and results of all waste samples are depicted on Appendix A, Figure 9.

Red Mud Disposal Area A

A total of 44 red mud surface and subsurface (maximum depth of 8 feet) samples were collected for radionuclide analysis from RMA, including two duplicate samples. All samples exhibited thorium and radium concentrations in excess of the remediation criterion of 5pCi/g in 40 CFR 192. The sum of thorium (*i.e.,* sum of Th-230 and Th-232) in such samples ranged from approximately 6 to 25 pCi/g. The sum of radium (*i.e.*, sum of Ra-226 and Ra-228) ranged from approximately 11 to 27 pCi/g. The

radionuclide contaminant present in the highest concentration in all samples is associated with the thorium decay chain.

A total of seven samples were collected for radionuclide analyses from the RMA Depositional Area located south of the RMA, including one duplicate sample. All but one sample exhibited thorium and radium concentrations in excess of 5 pCi/g. The sum of thorium in such samples ranged from approximately 4 to 11 pCi/g and the sum of radium ranged from approximately 5 to 14 pCi/g. The radionuclide contaminant present in the highest concentration in each sample is associated with the thorium decay chain.

Red Mud Disposal Area B

A total of 22 red mud surface and subsurface (maximum depth of 8 feet) samples were collected for radionuclide analysis from RMB, including one duplicate sample. All samples exhibited thorium and radium concentrations in excess of 5 pCi/g. The sum of thorium in such samples ranged from approximately 7 to 25 pCi/g and the sum of radium ranged essentially from approximately 8 to 29 pCi/g. The radionuclide contaminant present in the highest concentration in each sample is associated with the thorium decay chain.

Ash Disposal Pond

A total of six samples were collected from the ADP area, including one duplicate sample. The samples were collected from three different locations within the ADP. One location included a sediment sample collected from the southern edge of the ADP. The other two locations included surface and subsurface ash samples collected from the southeast side of the ADP area. The sum of thorium and the sum of radium concentrations were below 5 pCi/g (2.5 pCi/g maximum).

Red Mud Settling Pond

One sediment sample (RMS-SD45) was collected from the RMS located south of RMA. Thorium and radium concentrations exceeded 5 pCi/g in the sample. The sum of thorium in the sample was approximately 11 pCi/g, and the sum of radium was approximately 15 pCi/g. The radionuclide contaminant present in the highest concentration was from the thorium decay chain.

Upper Cooling Pond

A total of three sediment samples were collected for radionuclide analysis from the UCP. The sum of radium concentrations ranged from 2 to 16 pCi/g. The sum of thorium concentrations ranged from approximately 3 to 12 pCi/g, with two samples exceeding 5 pCi/g. The thorium concentrations in the three samples showed a decreasing trend to the south.

Lower Cooling Pond

One sediment sample, number LCP-SD33, was collected from the west side of the LCP. The sum of radium and the sum of thorium concentrations were within background levels.

Former Bauxite Storage Shed

A total of three samples were collected from the red mud pile located in the FBS. The sum of thorium (5-12 pCi/g) and the sum of radium (7-12 pCi/g) in all three samples exceeded 5 pCi/g with the thorium decay chain being the primary contaminant. One red mud sample (FBS-WST43A), was collected from the drainage channel leading south from the shed. The sum of radium in that sample was 5.1 pCi/g. Radium-228, which is part of the thorium decay chain, was present in the highest concentration.

5.5 Surface Water Sampling

A total of six surface water samples were collected from the Site (Appendix B, Table 5-10). One sample (SW-RMA-WST12) was collected from the ponded rain water located on top of the RMA. The sum of radium in this sample was approximately 6 pCi/L. Further south, sample RMA-SW57 was collected from the storm water runoff from within a culvert that connects the RMA to the RMA depositional area to the south. The sum of radium of 27 pCi/L in this sample is indicative of contaminant migration from RMA to other southern areas of the Site. Sample number RMS-SW45 was collected from the RMS located south of RMA. The sum of radium of 18 pCi/L in this sample also indicates surface runoff is eroding red mud from the RMA and transporting radioactivity to other on-site locations.

Two surface water samples were collected from the UCP. Sample UCP-SW39, collected from the northern portion of the pond and closer to the RMA, exhibited a sum of radium concentration of approximately 11 pCi/L. Sample UCP-SW33, collected from the southern portion of the pond and further away from the RMA, exhibited a sum of radium concentration of approximately 1.2 pCi/L. The trend within the surface water samples shows radioactivity decreasing to the south.

5.6 Groundwater Sampling

A total of seven on-Site monitoring wells were sampled (Appendix B, Table 5-10). All wells exhibited radionuclide concentrations well below the Maximum Contaminant Level (MCL) specified in the Safe Drinking Water Act (SDWA).

6.0 CONTAMINANT FATE AND TRANSPORT

Isotopes of thorium and radium were detected at elevated levels in the red mud and red sediment samples collected from the Site. The radionuclides found at the Site in the highest concentrations are part of the Th-232 decay chain. Limited amounts of uranium series radionuclides (U-238 decay chain) were also identified in red mud and red sediment. For some radionuclides, persistence in the environment is driven by the kinetics of radioactive decay. However, the radiological contaminants of concern at the Site are long-lived nuclides (*i.e.*, their radioactive half-lives do not contribute significantly toward their environmental degradation). For example, the primary Th-232 radioactive metal present in the red mud has a half-life of 14 billion years. No appreciable change in the quantity of these radionuclides can be expected to result from radioactive decay. The mobility of thorium in soils may be limited due to both the formation of low solubility precipitates (*i.e.*, phosphates, oxides) and on the presence of clays and organic matter onto which the thorium adsorbs. Thorium and radium are relatively insoluble, so it is likely that transport to groundwater primarily would occur as colloids or as sorbed constituents on fine particles.

At this Site, the radionuclides are primarily transported on the surface via rainwater and wind action. Significant erosion was noted in the RMA and throughout other areas of the Site during the field investigation. Without proper erosion control, radiological contaminants found in the red mud will continue to spread.

High winds (especially during tropical storm and hurricane events) could potentially transport red dust from the Site to residential communities to the north (*i.e.*, Harvey and Matthews Charles). During recent EPA community outreach efforts in November 2011, red sediment was observed inside several cisterns in the Harvey community. Residents in the Harvey community reported to EPA that periodic red dustings, that they believe originate from the Site, occur during high wind events.

7.0 RADIOLOGICAL RISK EVALUATION

7.1 On-Site Risks

The radiological assessment of the Site identified contamination that could result in radiation exposures exceeding acceptable levels. The potential routes of exposure include external gamma radiation, inadvertent ingestion of particulate radioactive materials in red mud, and inhalation of radon/thoron decay products and respirable radioactive particulates. The most significant source of the radiation is the thorium series radionuclides found in surface and subsurface red mud and in the impacted Site surface water and sediment. Since the parent radionuclides have extremely long half lives and will continue to emit radiation for billions of years, Site conditions will remain unchanged unless remediated, and will outlast the useful lifetimes of existing buildings and other structures that may be constructed in the future. The radionuclide concentrations found in the red mud exceed EPA risk-based guidelines for residential and industrial use scenarios for chronic long term exposures. Applicable requirements that are protective of human health and the environment include the standards that limit the radium and thorium concentrations in soil to less than 5 pCi/g specified in 40CFR 192, radon surface flux to 20 pCi/m^2-sec in Subpart W of 40 CFR 61, radium and uranium in groundwater to less than the MCLs specified in the SDWA, and limit exposure to indoor radon and thoron gas to 4 pCi/L. Site-specific cleanup levels would be established based on a human health risk assessment using current and future Site use scenarios.

An imminent and substantial endangerment is not anticipated as a result of short-term exposures to Site radiological contaminants. However, long-term exposures to these materials may increase the risk of developing a radiogenic cancer at the levels observed on-site. This carcinogenic risk is a chronic, or long-term health risk. Chronic risks are best described as statistical probabilities based on models and risk coefficients that have been derived from numerous studies of radiation effects on various populations (*i.e.*, human, animal, and cellular). Chronic exposure to elevated levels of radiation may increase the risk of cancer. There is no unique radiogenic cancer type, nor can a diagnosis of a cancer be shown to be the result of radiation exposure. Some specific

associations have been observed such as the increased risk of lung cancer due to exposure to radon decay products.

Under the current use scenario, human exposure to radiation on-site is limited since areas impacted by red mud are not normally frequented by Site workers or Site visitors. Therefore, no adverse health effect exposure pathway currently exists. However, the presence of this large volume of radioactive material on-site requires that future land-use and engineering controls be considered during any remediation or redevelopment efforts. Future land-use scenarios must be evaluated to determine the exposure to potential future receptors (*i.e.*, Site workers, construction workers, trespassers, and residents). Appropriate remedial alternatives and future land-use restrictions should be evaluated. Future health risks could be reduced by implementing and maintaining appropriate engineering controls.

Given the large volume of red mud on-site, radon and thoron build-up may be a potential concern for occupants under certain future use scenarios. Since radon and thoron testing was not part of this investigation, a radon and thoron evaluation is necessary to assess their on-site flux on the red mud surface and the potential migration of such gases into future on-site structures. Inhalation of radon and thoron decay products could be the primary contributor to future human health risks associated with the radiological contaminants contained in the red mud depending on future site use.

7.2 Off-Site Risks

St. Croix is susceptible to hurricanes and other high wind weather events that could carry radionuclides off-site. There have been historic releases of bauxite into neighboring residential communities to the north that resulted in red material deposits inside residential domestic water supply cisterns (*i.e.*, Hurricane Georges in September 1998). Residents located north of the Site have reported red dust deposition on rooftops, inside cisterns, in outdoor gardens, and on indoor furniture associated with hurricanes and other high wind events.

Off-Site gamma surveys conducted by EPA did not identify elevated radiation levels in the soil in the neighborhoods located north of the Site. However, cisterns in these neighborhoods have not been sampled for radionuclides.

Radon and thoron accumulations, build-up of their particulate decay products on-site, and potential off-site migration may also be a possible concern. Radon and thoron decay product testing in indoor and outdoor areas was not part of this investigation. Based on data collected during the IA, radon and thoron data should be collected and evaluated to assess the on-site flux on the red mud surface and the potential generation and migration of radon/thoron gas and decay products to the adjacent residential communities to the north. Off-site human health risks could be associated with inhalation of radon and thoron decay products and with the inhalation of respirable radioactive particulates. Ingestion of radioactive particulates from within cisterns is a less likely risk driver.

7.3 Ecological Risk

The migration of the red mud, due to significant erosion, creates the potential for ecological exposures to radiation in the southern and central portions of the Site. An evaluation of the ecological threat from on-site radiation was not part of this assessment. Based on the results of this assessment, a radiological Screening Level Ecological Risk Assessment (SLERA) is recommended as part of a long-term Site cleanup plan.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The radiological assessment has identified radiological contamination on-site that could result in exposure to unacceptable levels of radiation depending on future land use. The primary source of the radioactive contamination is the red mud that contains concentrations of thorium series radionuclides in excess of regulatory criteria. The majority of the potential risk is via exposure to external gamma radiation, and possibly from inhalation of radon and thoron decay products. Currently, levels of radiation in on-site media exceed health based EPA guideline criteria. A baseline risk assessment would be required to identify exposures that could result in elevated risks of cancer to either current and/or potential future receptors. Because the areas of elevated radioactivity are not accessed frequently by workers or trespassers under the current use, the Site conditions are not expected to pose an unacceptable risk to the current occupants. Although the radionuclide concentrations would not be expected to pose an unacceptable ecological risk, a formal SLERA to document the risk is recommended.

Recommendations for Additional Data Collection

The following additional data should be gathered to further evaluate the extent of radiological contamination:

1) The on-site and off-site investigations did not include radon and thoron measurements. Preliminary assessment of radon and thoron in outdoor on-site and off-site areas is necessary to assess potential exposure to on-site workers and off-site communities. These data would be used to supplement the RSE.

2) Sediment deposits in residential cisterns in the Harvey community observed during EPA's November 2011 community outreach work should be sampled and analyzed for radionuclides. These data would be used to supplement the RSE.

Recommendations for On-Site Remediation

In the short term, the spread of radioactive contamination by surface water runoff should be controlled through the implementation of engineering controls. On-site surface water generated from rainfall acts as transport mechanism of radionuclide contamination from the northern to the southern portions of the Site. Any cleanup action must prevent the direct interaction of surface water with red mud.

The RMA is the main source area spreading red mud and radionuclides to other parts of the Site via erosion. The red mud stored in the RMA exhibited radionuclide concentrations in excess of the threshold criteria specified for industrial and residential use scenarios. Significant erosion has been observed to occur in the RMA that has resulted in the spread of radiological contaminants to other portions of the Site. The erosion process is on-going and significant erosion during rainfall events were observed during the September 2011 field investigation. The threat of radionuclide transport from the RMA via air (through emissions or particulate migration) has not been fully evaluated; however, prevention of potential windborne or airborne migration of radioactivity should also be a focus of any remediation of the RMA.

The RMB is also a source of red mud and radionuclide migration. Red mud in RMB exhibited radionuclide concentrations in excess of the threshold criteria for industrial and residential use scenarios. The red mud in RMB is mostly covered with caliche (crushed carbonate rock); however, both the northern and southern edges are subject to erosion and release to the on-site surface water drainage pathways. Prevention of the migration of the red mud within the RMB is necessary to mitigate the spread of radioactivity.

The Site drainage complex is significantly impacted with red mud and radionuclides are migrating through this system from north to south. The RMS, which is significantly impacted by erosion from RMA, exhibited radionuclide concentrations in excess of the threshold criteria. The RMA Depositional Area located south of the RMA also exhibited radionuclide concentrations in excess of the threshold criteria specified for industrial and residential use scenarios. The RMA Depositional Area receives red mud runoff from the

RMA and transports it to the UCP and the LCP. The UCP, which is significantly impacted by erosion from the RMA, also exhibited radionuclide concentrations in excess of the threshold criteria. The LCP is threatened and may need further evaluation.

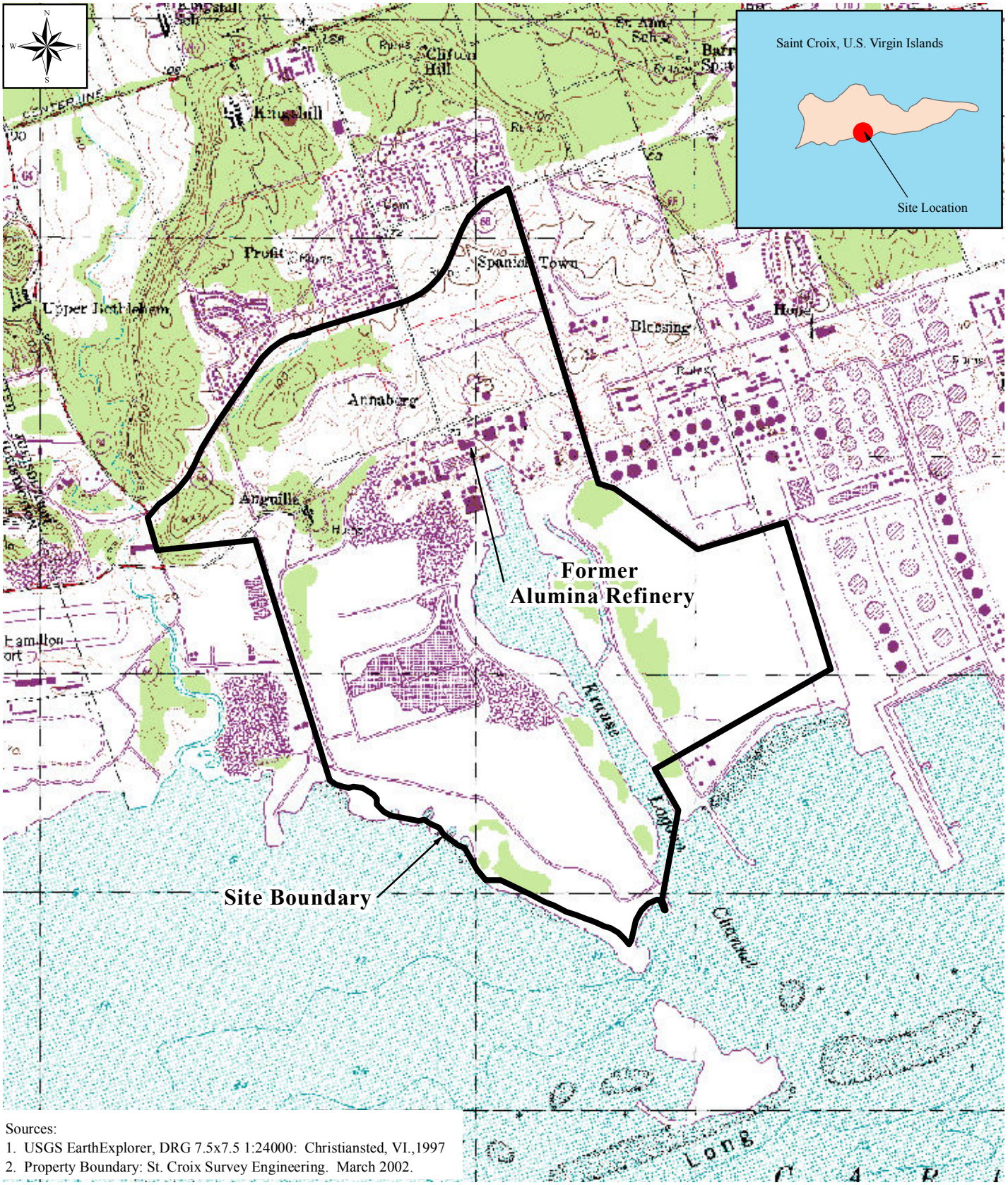
The need for remedial action should be evaluated for each component of the Site drainage system to reduce the radionuclide concentrations and/or prevent radionuclide transport via erosion and surface water runoff.

Long-Term Remedy Should Consider Future Use

The following remedial action objectives were developed to be protective of human health for potential future Site residents (under a future residential use scenario), current and future on-site workers, potential future recreationalists, and trespassers who might have unrestricted access:

- Eliminate or minimize the potential for humans to ingest, come into dermal contact with, or inhale particulates of radioactive constituents or to be exposed to external gamma radiation to achieve the level of protection required by the NCP (1 E-06 to 1 E-04 risk range).
- Conduct baseline and ecological risk assessments to establish site-specific cleanup goals.
- Prevent long-term exposure to thorium- and radium-contaminated material (*i.e.*, soil) with concentrations in excess of 5 pCi/g.
- Prevent exposure to indoor concentrations of radon and thoron gases in excess of 4 pCi/L.
- Prevent groundwater contamination in excess of the MCLs specified in the SDWA (5 pCi/L for the sum of radium, 30 μg/L for total uranium, and 4 mrem/year for beta emitters).
- Keep surface radon and thoron flux to less than 20 pCi/m^2-sec.
- Prevent migration of thorium-contaminated material that could result in the unnecessary and unacceptable human and ecological exposures.

Appendix A



Sources:
1. USGS EarthExplorer, DRG 7.5x7.5 1:24000: Christiansted, VI.,1997
2. Property Boundary: St. Croix Survey Engineering. March 2002.

SCALE:
2,000 1,000 0 2,000
Graphic Scale In Feet

TITLE:
FIGURE 1 - SITE LOCATION MAP
ST. CROIX ALUMINA (RENAISSANCE PARK)
ST. CROIX, VI

PROJECT:
ST. CROIX ALUMINA (RENAISSANCE PARK)

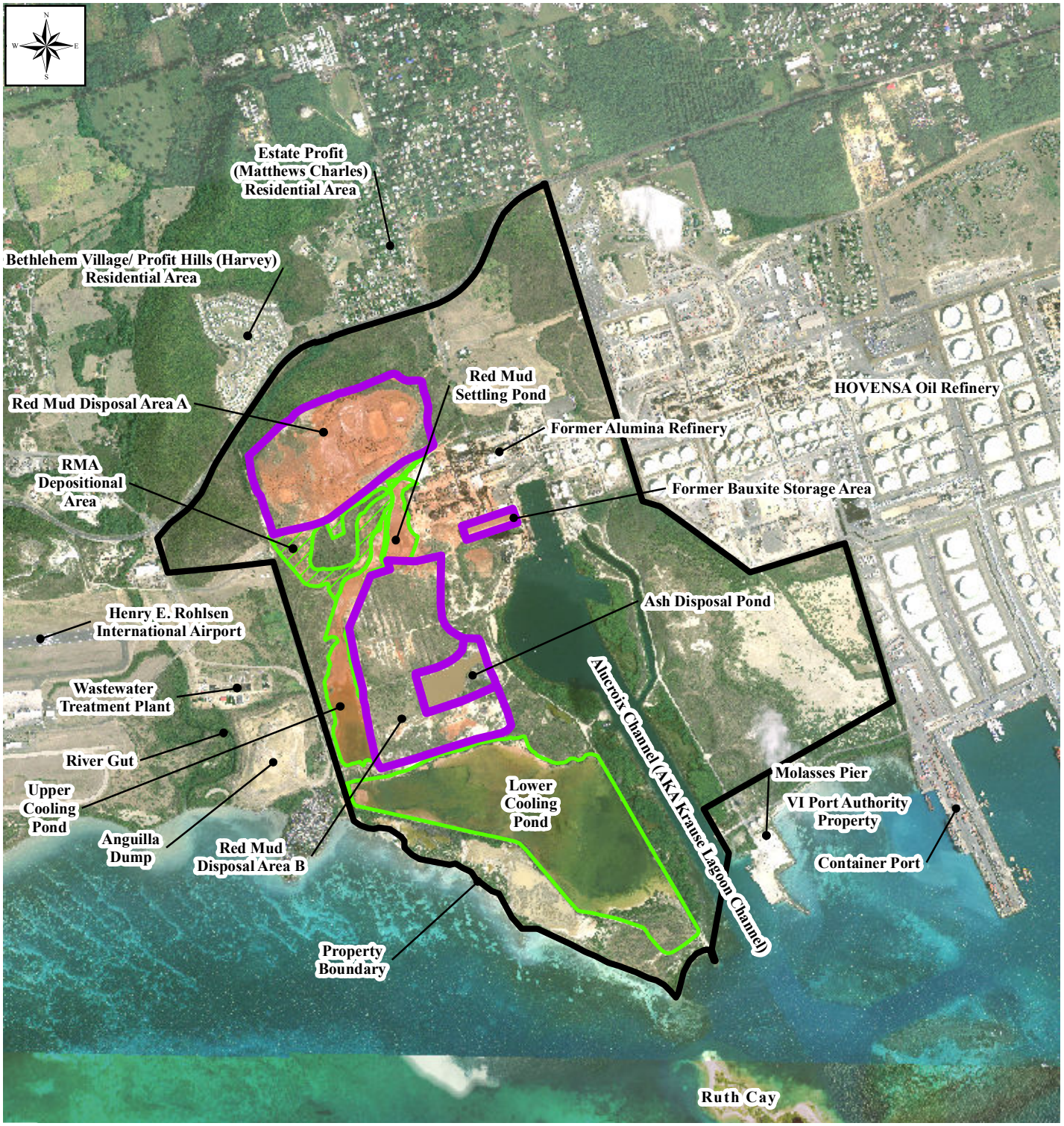
CLIENT NAME:
EPA

WESTON SOLUTIONS

DATE:
MAY 2012

FIGURE #:
1

P:\SAT2\St. Croix Alumina (1455)\MXD\2012_02_HRS\10905_SCA_Site_Map.mxd



Sources: MAY 2012

1. Imagery Source: United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, Photo Date November 2006; Published February 17, 2008. http://edcsns17.cr.usgs.gov/EarthExplorer/
2. Property Boundary: St. Croix Survey Engineering. March 2002.
3. Weston Solutions, Inc. Field Logbooks, St. Croix Alumina, TDD # S05-0013-1104-030. June-September 2011.

LEGEND:

0 500 1,000 2,000 3,000 4,000

Graphic Scale In Feet

TITLE:

FIGURE 2 - SITE FEATURES MAP
ST. CROIX ALUMINA (RENAISSANCE PARK)
ST. CROIX, VI

PROJECT: ST CROIX ALUMINA (RENAISSANCE PARK)

CLIENT NAME: EPA

WESTON SOLUTIONS

DATE: MAY 2012

FIGURE #: 2

P:\SAT2\St. Croix Alumina (1455)\MXD\2012_02_HRS\10906_SCA_TAerial_Map.mxd



Legend

- Below Average Background (Bkg) of 5194 cpm
- 6387 - 6983 cpm (Bkg + 2 Sigma to Bkg + 3 Sigma)

All measurements were aquired using the Rapid Assessment Tool (RAT).

Notes

cpm = counts per minute

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

70 35 0 70 140
Graphic Scale in Feet

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1090 King Georges Post Road, Suite 201, Edison, NJ 08837
TEL: (732) 585-4400 Fax: (732) 225-7037
http://www.westonsolutions.com

REMOVAL SUPPORT TEAM 2
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N W E S

REPORT DATE: MAY 2012	EPA OSC: D. ROSOFF	CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY	DRAWING TITLE: FIGURE 3 - GAMMA COUNT RATE MEASUREMENTS COLLECTED ALONG THE NORTHERN FENCE LINE OF THE SITE (TABLE 5-7)
DRAWING: 10907_Alumina_Table_10.mxd PATH: P:\SAT2\St Croix Alumina (1455)\MXD\	RST SPM: E. KNYFD		
REVISION No. 0	CONTRACT No. EP-W-06-072	PROJECT NAME: ST CROIX ALUMINA SITE	
WORK ORDER No. 20401.132.022.5097	GIS ANALYST: J.TORRES DATE CREATED: 2/15/2012		FIGURE: 3 SCALE: 1:840 DATE: 3/13/2012



Legend

- Below Average Background (Bkg) of 5194 cpm

All measurements were aquired using the Rapid Assessment Tool (RAT).

Notes

cpm = counts per minute

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

75 37.5 0 75 150
Graphic Scale in Feet

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REPORT DATE: MAY 2012	EPA OSC: D. ROSOFF	CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY	DRAWING TITLE: FIGURE 4 - GAMMA COUNT RATE MEASUREMENTS COLLECTED IN HARVEY (TABLE 5-4)
DRAWING: 10908_Alumina_Table_11.mxd PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\	RST SPM: E. KNYFD		
REVISION No. 0	CONTRACT No. EP-W-06-072	PROJECT NAME: ST CROIX ALUMINA SITE	
WORK ORDER No. 20401.132.022.5097	GIS ANALYST: J. TORRES DATE CREATED: 2/15/2012		FIGURE: 4 SCALE: 1:900 DATE: 3/13/2012



Legend

- Below Average Background (Bkg) of 5194 cpm

All measurements were aquired using the Rapid Assessment Tool (RAT)

Notes

cpm = counts per minute

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

30 15 0 30 60
Graphic Scale in Feet

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N W E S

REPORT DATE: MAY 2012
EPA OSC: D. ROSOFF
CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
DRAWING TITLE: FIGURE 5 - GAMMA COUNT RATE MEASUREMENTS COLLECTED INSIDE THE PEDRO CRUZ BALLFIELD LOCATED IN MATTHEWS CHARLES (TABLE 5-5)

DRAWING: 10909_Alumina_Table_12.mxd
PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\
RST SPM: E. KNYFD

REVISION No. 0
CONTRACT No. EP-W-06-072
PROJECT NAME: ST CROIX ALUMINA SITE

WORK ORDER No. 20401.132.022.5097
GIS ANALYST: J. TORRES
DATE CREATED: 2/15/2012

FIGURE: 5
SCALE: 1:360
DATE: 3/13/2012



Legend

- Below Average Background (Bkg) of 5194 cpm

All measurements were aquired using the Rapid Assessment Tool (RAT)

Notes

cpm = counts per minute

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

30 15 0 30 60
Graphic Scale in Feet

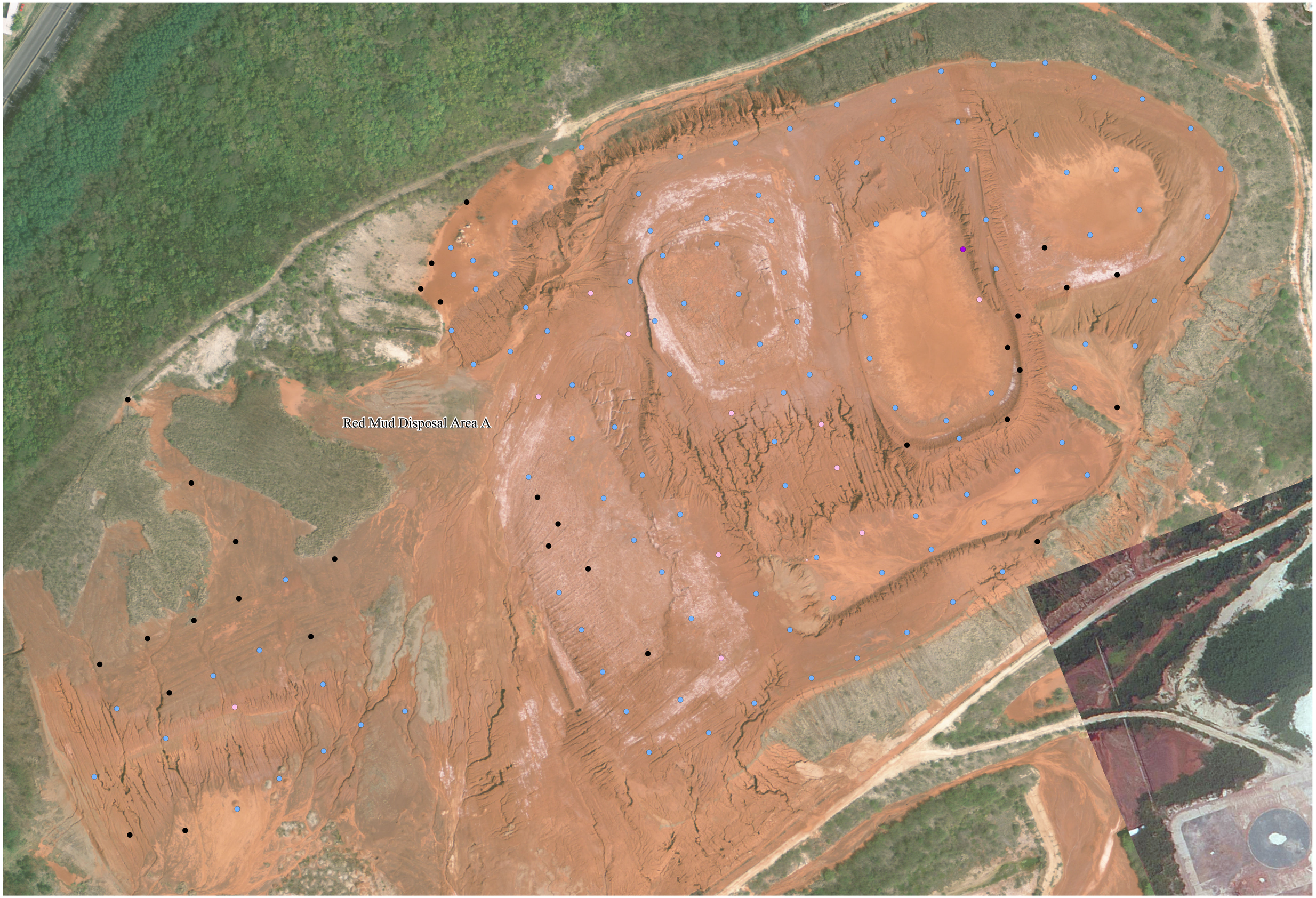
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REPORT DATE: MAY 2012	EPA OSC: D. ROSOFF	CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY	DRAWING TITLE: FIGURE 6 - GAMMA COUNT RATE MEASUREMENTS COLLECTED INSIDE THE PEDRO CRUZ RECREATIONAL AREA LOCATED IN MATTHEWS CHARLES (TABLE 5-6)
DRAWING: 10910_Alumina_Table_13.mxd PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\	RST SPM: E. KNYFD		
REVISION No. 0	CONTRACT No. EP-W-06-072	PROJECT NAME: ST CROIX ALUMINA SITE	
WORK ORDER No. 20401.132.022.5097	GIS ANALYST: J. TORRES DATE CREATED: 2/15/2012		FIGURE: 6 SCALE: 1:360 DATE: 3/13/2012



Legend

- 20 - 40 uR/hr
- 40 - 50 uR/hr
- 50 - 60 uR/hr
- 60 - 70 uR/hr

Average Background = 3.6 uR/hr.

All measurements were aquired with a Ludlum Model 19 MicroR Meter.

60 30 0 60 120
Graphic Scale in Feet

Notes

uR/hr = micro-Roentgen per hour

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

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REPORT DATE: MAY 2012	EPA OSC: D. ROSOFF	CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY	DRAWING TITLE: FIGURE 7 - SURFACE EXPOSURE RATE MEASUREMENTS COLLECTED ON THE RED MUD DISPOSAL AREA "A" (TABLE 5-8)
DRAWING: 10911_Alumina_Table_14.mxd PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\	RST SPM: E. KNYFD		
REVISION No. 0	CONTRACT No. EP-W-06-072	PROJECT NAME: ST CROIX ALUMINA SITE	
WORK ORDER No. 20401.132.022.5097	GIS ANALYST: J. TORRES DATE CREATED: 2/15/2012		FIGURE: 7 SCALE: 1:720 DATE: 3/13/2012



Legend

Sample Location

Isotope Definitions

Th-230 = Thorium-230
Th-232 = Thorium-232
Ra-226 = Radium-226
Ra-228 = Radium-228
U-234 = Uranium-234
U-235 = Uranium-235
U-238 = Uranium-238

Notes

Results are expressed as pico-Curies per gram (pCi/g)

ND = Not Detected

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

250 125 0 250 500
Graphic Scale in Feet

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REPORT DATE: MAY 2012

EPA OSC: D. ROSOFF

DRAWING: 10913_Alumina_Table_4_4C.mxd
PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\

RST SPM: E. KNYFD

REVISION No.: 0

CONTRACT No.: EP-W-06-072

WORK ORDER No.: 20401.132.022.5097

GIS ANALYST: J. TORRES
DATE CREATED: 2/16/2012

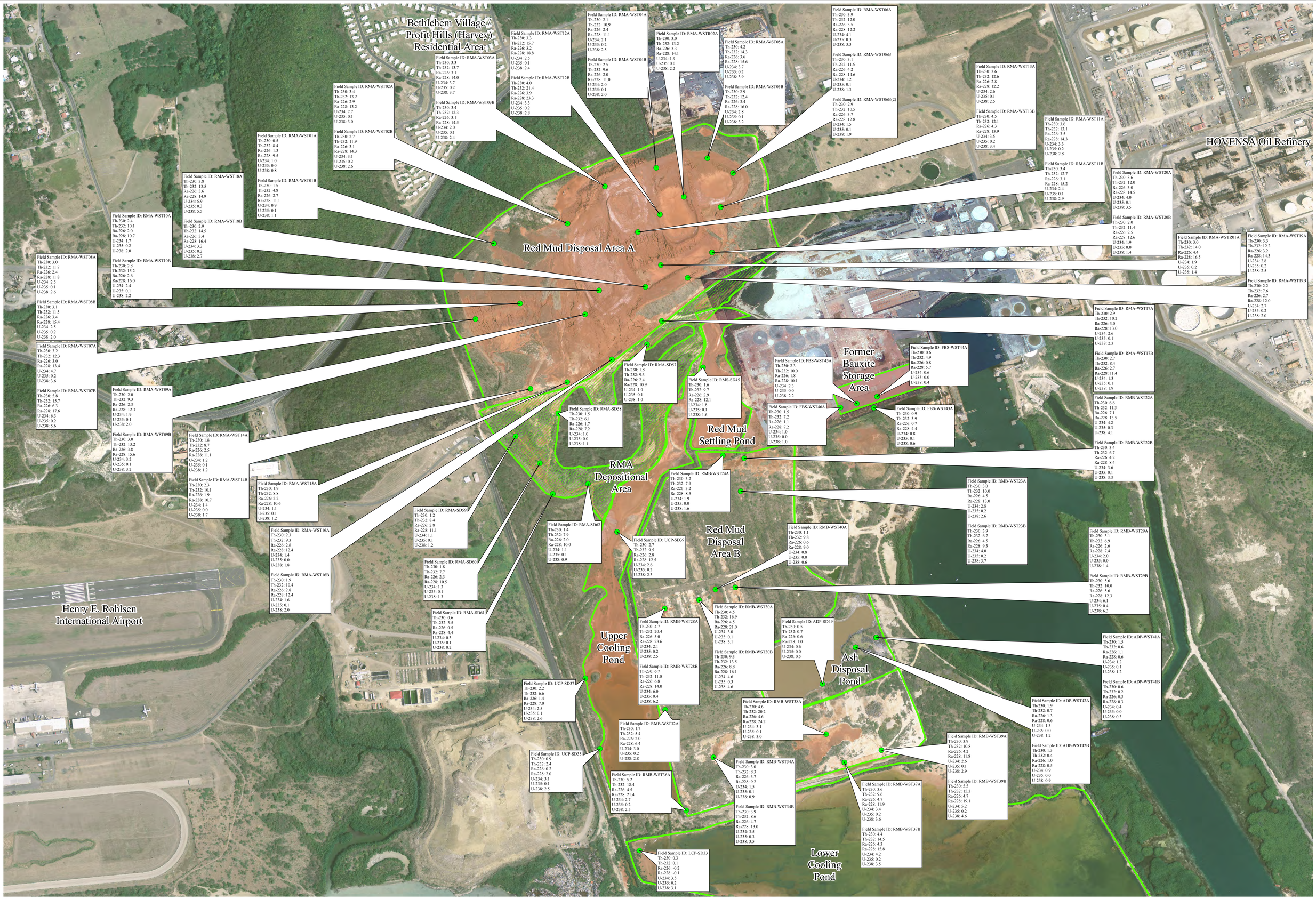
CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROJECT NAME: ST CROIX ALUMINA SITE

DRAWING TITLE:

FIGURE 8 - RADIOLOGICAL RESULTS OF BACKGROUND SOIL SAMPLES COLLECTED PRIMARILY FROM THE NORTHEAST PORTION OF THE SITE (TABLE 5-3C)

FIGURE: 8 SCALE: 1:3,300 DATE: 3/13/2012



Legend

- Sample Location
- Site Areas
- RMA Depositional Area

Notes

Sample ID Suffix
"A" means a surface sample collected from ground surface to a depth of 2 feet below ground surface;
"B" means a subsurface sample collected from a depth > 2 feet

Results are expressed as pico-Curies per gram (pCi/g)

Imagery Source:
United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008.
http://edcsns17.cr.usgs.gov/EarthExplorer/

Isotope Definitions

Th-230 = Thorium-230
Th-232 = Thorium-232
Ra-226 = Radium-226
Ra-228 = Radium-228
U-234 = Uranium-234
U-235 = Uranium-235
U-238 = Uranium-238

250 125 0 250 500
Graphic Scale in Feet

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REPORT DATE: MAY 2012	EPA OSC: D. ROSOFF	CLIENT NAME: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY	DRAWING TITLE: FIGURE 9 - NET RADIOLOGICAL ANALYSES RESULTS OF SURFACE AND SUBSURFACE WASTE AND SEDIMENT SAMPLES WITH BACKGROUND SUBTRACTED (TABLE 5-9C)
DRAWING: 11365_Alumina_Table_4_10C_SF.mxd PATH: P:\SAT2\St. Croix Alumina (1455)\MXD\	RST SPM: E. KNYFD		
REVISION No. 0	CONTRACT No. EP-W-06-072	PROJECT NAME: ST CROIX ALUMINA SITE	
WORK ORDER No. 20401.132.022.5097	GIS ANALYST: J. TORRES DATE CREATED: 5/18/2012		FIGURE: 9 SCALE: 1:3,000 DATE: 5/18/2012

Appendix B

Table 4-1

Relevant Requirements and Thresholds for Radiological Levels

Table 4-1: Relevant Requirements and Thresholds for Radiological Levels		
Type	**Pertinent Standard or Guideline**	**Source**
Radon and Thoron Indoor Concentration	4 pCi/L	EPA 1992
Radon/thoron decay progeny	0.02 Working Level (WL)	40 CFR 192
Radon and Thoron Outdoor Concentration	20 pCi/m^2-sec	40 CFR 61 (Rad NESHAP), Subpart W
Soil: Radium Other Radionuclides Exposure Rate	 Sum of Ra-226 and Ra-228: 5 pCi/g Sum of Th-230 and Th-232: 5 pCi/g 20 μR/h	40 CFR 192
Groundwater: Radium Gross alpha, Beta and gamma Uranium	Sum of Ra-226 and Ra-228: 5 pCi/L, Adjusted gross alpha (Not including radon or uranium): 15 pCi/L, Beta/gamma: 4 mrem/year Total uranium: 30 ug/L	Safe Drinking Water Act (SDWA)
All Pathways	Cancer Risk range E-6 to E-4 or 15 mrem/yr	OSWER Directive No. 9200.4-18

Table 5-1

Background Gamma Count Rate Measurements Collected Northeast of the Site

Table 5-1: Background Gamma Count Rate Measurements Collected Northeast of the Site				
Location	**Measurement on Contact (cpm)**	**Surface**	**Latitude**	**Longitude**
SCRMBKG_01	4878	Soil	17.71440000	-64.77426167
SCRMBKG_02	3977	Soil	17.71439000	-64.77408333
SCRMBKG_03	5982	Soil	17.71460500	-64.77392833
SCRMBKG_04	5293	Soil	17.71502667	-64.77309500
SCRMBKG_05	5633	Soil	17.71502667	-64.77309500
SCRMBKG_05	5750	Soil	17.71502667	-64.77309500
SCRMBKG_06	5615	Soil	17.71508333	-64.77284333
SCRMBKG_07	5829	Soil	17.71514167	-64.77260500
SCRMBKG_08	5053	Soil	17.71477833	-64.77264667
SCRMBKG_09	4669	Soil	17.71473500	-64.77280667
SCRMBKG_10	4983	Soil	17.71459000	-64.77332167
SCRMBKG_11	4663	Soil	17.71459000	-64.77332167

Minimum =	**3977**
Maximum =	**5982**
Median =	**5173**
Arithmeic Mean =	**5194**
One Sigma =	**597**
Two Sigma =	**1193**

Table 5-2

Background Exposure Rate Measurements Collected Northeast of the Site

Table 5-2: Background Exposure Rate Measurements Collected Northeast of the Site				
Location	**Measurement on Contact (μR/h)**	**Surface**	**Latitude**	**Longitude**
BG-S07	5	Soil	17.7144667	-64.775165
BG-S08	4	Soil	17.715925	-64.7746517
BG-S09	3	Soil	17.7175117	-64.7733317
BG-S10	3	Soil	-----	-----
BG-S11	3	Soil	17.7165767	-64.7699733
BG-S12	5	Soil	17.7148433	-64.7721033
BG-S13	3	Soil	17.7139583	-64.77364
BG-S14	3	Soil	17.7141183	-64.7701833
BG-S15	3	Soil	17.7119333	-64.7696067

Minimum =	**3**
Maximum =	**5**
Median =	**3**
Arithmetic Mean =	**3.6**
One Sigma =	**0.9**
Two Sigma =	**1.8**

Table 5-3A

Gamma Spectroscopy Analyses Results of Background Soil Samples Collected Primarily From the Northeast Portion of the Site

Table 5-3A: Gamma Spectroscopy Analyses Results of Background Soil Samples Collected Primarily From the Northeast Portion of the Site																	
Field Sample ID	**Lab Sample ID**	**Th-232[(a)]**				**Ra-226[(b)]**				**Ra-228[(c)]**				**U-238[(d)]**			
		Result (pCi/g)	**2 sigma**	**MDC**	**Val. Flag**	**Result (pCi/g)**	**2 sigma**	**MDC**	**Val. Flag**	**Result (pCi/g)**	**2 sigma**	**MDC**	**Val. Flag**	**Result (pCi/g)**	**2 sigma**	**MDC**	**Val. Flag**
BG-S01	B1.11620Z	0.03	0.01	NR		0.06	0.01	NR		0.03	0.01	NR	Q	0.05	0.04	NR	
BG-S01	B1.11620Z (DUP)	0.01	0.01	NR		0.03	0.02	NR		ND	ND	NR	U	NR	NR	NR	U
BG-S07	B1.11621A	0.5	0.2	NR		0.37	0.05	NR		0.53	0.08	NR	Q	NR	NR	NR	U
BG-S08	B1.11622B	0.5	0.2	NR		0.28	0.04	NR		0.39	0.06	NR	Q	NR	NR	NR	U
BG-S09	B1.11623C	0.2	0.1	NR		0.16	0.02	NR		0.16	0.03	NR	Q	0.09	0.06	NR	
BG-S10	B1.11624D	0.4	0.1	NR		0.24	0.04	NR		0.30	0.05	NR	Q	NR	NR	NR	U
BG-S11	B1.11625E	0.2	0.2	NR		0.16	0.03	NR		0.24	0.05	NR	Q	NR	NR	NR	U
BG-S12	B1.11626F	0.8	0.2	NR		0.57	0.07	NR		0.7	0.1	NR	Q	NR	NR	NR	U
BG-S13	B1.11627G	0.5	0.2	NR		0.37	0.05	NR		0.47	0.07	NR	Q	NR	NR	NR	U
BG-S14	B1.11628H	0.5	0.2	NR		0.44	0.06	NR		0.47	0.07	NR	Q	NR	NR	NR	U
BG-S15	B1.11629J	0.3	0.1	NR		0.40	0.05	NR		0.25	0.04	NR	Q	2	1	NR	
BG-S16A	B1.11630B	0.1	0.1	NR		0.24	0.03	NR		0.19	0.03	NR	Q	NR	NR	NR	U
Range (pCi/g) =		0.01 to 0.76				0.03 to 0.57				0.03 to 0.74				0.05 to 2.17			
Average (pCi/g) =		0.33				0.28				0.34				0.77			
Sigma (pCi/g) =		0.22				0.16				0.20				1.21			

(a) Estimated using the Bi-212 or when Bi-212 is not reported using the Pb-212 or Tl-208 with the assumption of secular equilibrium..
(b) Estimated using the Bi-214 or when Bi-214 is not reported using the Pb-214 with the assumption of secular equilibrium.
(c) Estimated using the Ac-228 energy peak.
(d) Estimated using the Pa-234m or when Pa-234m is not reported using the Th-234 with the assumption of secular equilibrium.
NR - Not Reported, NA - Not Applicable, Q= No duplicate result available
ND - Non-Detectable (DUP) - Laboratory Duplicate
U - Isotope was not detected above the noted MDC

Table 5-3B

Alpha Spectroscopy Analyses of Background Soil Samples Collected Primarily from the Northeast Portion of the Site

Table 5-3B: Alpha Spectroscopy Analyses of Background Soil Samples Collected Primarily from the Northeast Portion of the Site																				
Field Sample ID	Lab Sample ID	Th-230				Th-232				U-234				U-235				U-238			
		Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
BG-S01	B1.11620Z	0.1	0.1	0.1	J	0.04	0.07	0.08	U	0.04	0.05	0.07	U	0.01	0.05	0.09	U	0.12	0.08	0.05	
BG-S07	B1.11621A	0.6	0.2	0.04		0.5	0.2	0.08		0.2	0.1	0.04	J	0.01	0.03	0.05	U	0.3	0.1	0.07	
BG-S07	B1.11621A (DUP)	0.7	0.2	0.04		0.5	0.2	0.07		0.3	0.1	0.04	J	0.03	0.05	0.05	U	0.3	0.1	0.06	
BG-S08	B1.11622B	0.4	0.1	0.1		0.4	0.1	0.04		0.2	0.1	0.07	J	0.06	0.06	0.07	U	0.2	0.1	0.06	
BG-S09	B1.11623C	0.2	0.1	0.1	J	0.1	0.1	0.04		0.3	0.1	0.06	J	0.01	0.04	0.06	U	0.15	0.09	0.06	
BG-S10	B1.11624D	0.5	0.2	0.1		0.3	0.1	0.09		0.2	0.1	0.06	J	0.02	0.04	0.05	U	0.13	0.08	0.06	
BG-S11	B1.11625E	0.3	0.1	0.05	J	0.3	0.1	0.08		0.2	0.1	0.04	J	0.03	0.05	0.05	U	0.20	0.09	0.06	
BG-S12	B1.11626F	0.9	0.2	0.1		0.7	0.2	0.08		0.3	0.1	0.07	J	0.00	0.04	0.08	U	0.3	0.1	0.06	
BG-S13	B1.11627G	0.4	0.1	0.04		0.4	0.1	0.06		0.2	0.1	0.05	J	0.04	0.05	0.06	U	0.2	0.1	0.06	
BG-S14	B1.11628H	0.5	0.2	0.04		0.5	0.2	0.07		0.3	0.1	0.04	J	0.04	0.05	0.06	U	0.3	0.1	0.05	
BG-S15	B1.11629J	0.6	0.2	0.05		0.3	0.1	0.08		0.3	0.1	0.07	J	0.02	0.04	0.05	U	0.3	0.1	0.04	
BG-S16A	B1.11630B	0.3	0.1	0.1	J	0.2	0.1	0.08		0.2	0.1	0.07	J	0.00	0.04	0.08	U	0.2	0.1	0.07	
Range (pCi/g) =		0.15	to	0.86		0.04	to	0.73		0.04	to	0.33		0.00	to	0.06		0.12	to	0.34	
Average (pCi/g) =		0.46				0.36				0.23				0.02				0.23			
Sigma (pCi/g) =		0.22				0.19				0.07				0.02				0.07			

J = an estimated value U = isotope was not detected above the noted MDC
(DUP) - Laboratory Duplicate

Table 5-3C

Radiological Results of Background Soil Samples Collected Primarily from the Northeast Portion of the Site

Table 5-3C: Radiological results of Background Soil Samples Collected Primarily from the Northeast Portion of the Site

Field Sample ID	Lab Sample ID	Th-230[a]			Th-232[a]			Ra-226[b]			Ra-228[b]			U-234[a]			U-235[a]			U-238[a]		
		Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC	Result (pCi/g)	2 sigma	MDC
BG-S01	B1.11620Z	0.15	0.1	0.13	0.04	0.07	0.08	0.06	0.01	NR	0.03	0.01	NR	0.04	0.05	0.07	0.01	0.05	0.09	0.12	0.08	0.05
BG-S01	B1.11620Z (DUP)	NA	NA	NA	NA	NA	NA	0.03	0.02	NR	NR	NR	NR	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-S07	B1.11621A	0.62	0.2	0.04	0.53	0.2	0.08	0.37	0.05	NR	0.53	0.08	NR	0.24	0.1	0.04	0.01	0.03	0.05	0.28	0.1	0.07
BG-S07	B1.11621A (DUP)	0.68	0.2	0.04	0.50	0.2	0.07	NA	NA	NA	NA	NA	NA	0.29	0.1	0.04	0.03	0.05	0.05	0.3	0.1	0.06
BG-S08	B1.11622B	0.36	0.1	0.07	0.44	0.1	0.04	0.28	0.04	NR	0.39	0.06	NR	0.23	0.1	0.07	0.06	0.06	0.07	0.24	0.1	0.06
BG-S09	B1.11623C	0.15	0.1	0.06	0.15	0.08	0.04	0.16	0.02	NR	0.16	0.03	NR	0.26	0.1	0.06	0.01	0.04	0.06	0.15	0.09	0.06
BG-S10	B1.11624D	0.51	0.2	0.06	0.25	0.1	0.09	0.24	0.04	NR	0.30	0.05	NR	0.22	0.1	0.06	0.02	0.04	0.05	0.13	0.08	0.06
BG-S11	B1.11625E	0.29	0.1	0.05	0.27	0.1	0.08	0.16	0.03	NR	0.24	0.05	NR	0.24	0.1	0.04	0.03	0.05	0.05	0.2	0.09	0.06
BG-S12	B1.11626F	0.86	0.2	0.07	0.73	0.2	0.08	0.57	0.07	NR	0.74	0.1	NR	0.26	0.1	0.07	0.00	0.04	0.08	0.31	0.1	0.06
BG-S13	B1.11627G	0.43	0.1	0.04	0.37	0.1	0.06	0.37	0.05	NR	0.47	0.07	NR	0.16	0.1	0.05	0.04	0.05	0.06	0.21	0.09	0.06
BG-S14	B1.11628H	0.53	0.2	0.04	0.53	0.2	0.07	0.44	0.06	NR	0.47	0.07	NR	0.33	0.1	0.04	0.04	0.05	0.06	0.26	0.1	0.05
BG-S15	B1.11629J	0.63	0.2	0.05	0.27	0.1	0.08	0.4	0.05	NR	0.25	0.04	NR	0.27	0.1	0.07	0.02	0.04	0.05	0.34	0.1	0.04
BG-S16A	B1.11630B	0.31	0.1	0.06	0.24	0.1	0.08	0.24	0.03	NR	0.19	0.03	NR	0.21	0.1	0.07	0.00	0.04	0.08	0.22	0.1	0.07
	Range (pCi/g) =	0.15	to	0.86	0.04	to	0.73	0.03	to	0.57	0.03	to	0.74	0.04	to	0.33	0.00	to	0.06	0.12	to	0.34
	Average (pCi/g) =	0.46			0.36			0.28			0.34			0.23			0.02			0.23		
	Sigma (pCi/g) =	0.22			0.19			0.16			0.20			0.07			0.02			0.07		

(a) Isoptoic analyses results as reported in Table 5-3B
(b) Gamma spectroscopy analyses results as reported in Table 5-3A
(DUP) - Laboratory Duplicate

Table 5-4

Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2250	cpm	soil	0.25
311084.681	1959524.95	-64.781455	17.71478667	2220	cpm	soil	0.25
311084.487	1959523.11	-64.78145667	17.71477	2220	cpm	soil	0.25
311084.995	1959520.7	-64.78145167	17.71474833	2150	cpm	soil	0.25
311086.034	1959518.48	-64.78144167	17.71472833	2200	cpm	soil	0.25
311087.428	1959516.25	-64.78142833	17.71470833	2220	cpm	soil	0.25
311088.644	1959514.03	-64.78141667	17.71468833	2090	cpm	soil	0.25
311090.052	1959513.28	-64.78140333	17.71468167	2220	cpm	soil	0.25
311091.125	1959514.56	-64.78139333	17.71469333	2080	cpm	soil	0.25
311092.726	1959515.65	-64.78137833	17.71470333	2130	cpm	soil	0.25
311094.147	1959516.37	-64.781365	17.71471	1950	cpm	soil	0.25
311094.149	1959516.56	-64.781365	17.71471167	1980	cpm	soil	0.25
311094.149	1959516.56	-64.781365	17.71471167	1870	cpm	soil	0.25
311094.149	1959516.56	-64.781365	17.71471167	1870	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
311097.347	1959518.19	-64.781335	17.71472667	1770	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
311101.256	1959520.18	-64.78129833	17.714745	1820	cpm	soil	0.25
311103.561	1959520.9	-64.78127667	17.71475167	1700	cpm	soil	0.25
311106.391	1959521.05	-64.78125	17.71475333	1900	cpm	soil	0.25
311109.047	1959521.4	-64.781225	17.71475667	2050	cpm	soil	0.25
311110.288	1959521.75	-64.78121333	17.71476	1970	cpm	soil	0.25
311114.012	1959523.01	-64.78117833	17.71477167	2020	cpm	soil	0.25
311115.614	1959524.1	-64.78116333	17.71478167	2190	cpm	soil	0.25
311117.391	1959525.01	-64.78114667	17.71479	2020	cpm	soil	0.25
311118.632	1959525.37	-64.781135	17.71479333	2220	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2190	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2030	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2000	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	1830	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	1840	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	1940	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2010	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	2060	cpm	soil	0.25
311129.094	1959528.59	-64.78103667	17.71482333	1870	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	2080	cpm	soil	0.25
0*	0*	0*	0*	2030	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
311139.382	1959532.18	-64.78094	17.71485667	2000	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
311152.69	1959537.22	-64.780815	17.71490333	1730	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
311157.835	1959539.01	-64.78076667	17.71492	1800	cpm	soil	0.25
311160.672	1959539.91	-64.78074	17.71492833	1790	cpm	soil	0.25
311163.158	1959540.99	-64.78071667	17.71493833	1780	cpm	soil	0.25
311164.402	1959541.72	-64.780705	17.714945	1820	cpm	soil	0.25
311168.304	1959542.97	-64.78066833	17.71495667	1880	cpm	soil	0.25
311169.73	1959544.25	-64.780655	17.71496833	1810	cpm	soil	0.25
311168.668	1959544.08	-64.780665	17.71496667	1840	cpm	soil	0.25
311166.714	1959543.17	-64.78068333	17.71495833	1760	cpm	soil	0.25
311165.652	1959543	-64.78069333	17.71495667	1610	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
0*	0*	0*	0*	1480	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
0*	0*	0*	0*	1530	cpm	soil	0.25
0*	0*	0*	0*	1530	cpm	soil	0.25
311150.215	1959537.24	-64.78083833	17.71490333	1650	cpm	soil	0.25
311147.905	1959535.97	-64.78086	17.71489167	1650	cpm	soil	0.25
311145.594	1959534.7	-64.78088167	17.71488	1760	cpm	soil	0.25
311143.287	1959533.8	-64.78090333	17.71487167	1870	cpm	soil	0.25
311141.868	1959533.26	-64.78091667	17.71486667	2060	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311135.304	1959530.93	-64.78097833	17.714845	2090	cpm	soil	0.25
311132.642	1959529.84	-64.78100333	17.714835	2240	cpm	soil	0.25
311130.158	1959528.95	-64.78102667	17.71482667	2360	cpm	soil	0.25
311128.738	1959528.41	-64.78104	17.71482167	2210	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
311123.773	1959526.79	-64.78108667	17.71480667	1940	cpm	soil	0.25
311121.824	1959526.44	-64.781105	17.71480333	1930	cpm	soil	0.25
311120.228	1959525.9	-64.78112	17.71479833	1870	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
311081.892	1959547.85	-64.78148333	17.71499333	2540	cpm	soil	0.25
311080.844	1959549.15	-64.78149333	17.715005	2430	cpm	soil	0.25
311079.27	1959551.01	-64.78150833	17.71502167	2530	cpm	soil	0.25
311078.575	1959552.31	-64.781515	17.71503333	2500	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
311075.277	1959558.8	-64.78154667	17.71509167	2360	cpm	soil	0.25
311075.305	1959561.75	-64.78154667	17.71511833	2330	cpm	soil	0.25
311075.496	1959563.22	-64.781545	17.71513167	2180	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311074.15	1959570.43	-64.78155833	17.71519667	1840	cpm	soil	0.25
0*	0*	0*	0*	1800	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
311073.803	1959571.17	-64.78156167	17.71520333	1750	cpm	soil	0.25
311072.762	1959573.21	-64.78157167	17.71522167	1630	cpm	soil	0.25
311071.548	1959575.8	-64.78158333	17.715245	1550	cpm	soil	0.25
311070.348	1959579.69	-64.781595	17.71528	1690	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
311066.901	1959589.13	-64.78162833	17.715365	1810	cpm	soil	0.25
311066.56	1959590.43	-64.78163167	17.71537667	1720	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
311069.317	1959582.84	-64.781605	17.71530833	1970	cpm	soil	0.25
311069.66	1959581.73	-64.78160167	17.71529833	1940	cpm	soil	0.25
311070.523	1959579.5	-64.78159333	17.71527833	1940	cpm	soil	0.25
311071.03	1959577.1	-64.78158833	17.71525667	1920	cpm	soil	0.25
311071.713	1959574.51	-64.78158167	17.71523333	1890	cpm	soil	0.25
311072.392	1959571.55	-64.781575	17.71520667	1800	cpm	soil	0.25
311073.075	1959568.96	-64.78156833	17.71518333	1810	cpm	soil	0.25
311073.581	1959566.38	-64.78156333	17.71516	1640	cpm	soil	0.25
311074.26	1959563.42	-64.78155667	17.71513333	1660	cpm	soil	0.25
311075.118	1959560.64	-64.78154833	17.71510833	1780	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
311078.222	1959552.31	-64.78151833	17.71503333	1690	cpm	soil	0.25
311079.788	1959549.71	-64.78150333	17.71501	1820	cpm	soil	0.25
311080.483	1959548.42	-64.78149667	17.71499833	2200	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2160	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
311083.55	1959536.21	-64.78146667	17.71488833	2250	cpm	soil	0.25
311084.06	1959533.99	-64.78146167	17.71486833	2150	cpm	soil	0.25
311085.098	1959531.59	-64.78145167	17.71484667	2100	cpm	soil	0.25
311086.312	1959529.18	-64.78144	17.714825	2020	cpm	soil	0.25
311086.645	1959526.96	-64.78143667	17.714805	1990	cpm	soil	0.25
311086.629	1959525.3	-64.78143667	17.71479	1800	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
311088.361	1959521.41	-64.78142	17.714755	1680	cpm	soil	0.25
311089.934	1959519.55	-64.781405	17.71473833	1800	cpm	soil	0.25
311090.797	1959517.33	-64.78139667	17.71471833	1860	cpm	soil	0.25
311091.312	1959515.66	-64.78139167	17.71470333	1940	cpm	soil	0.25
311091.487	1959515.48	-64.78139	17.71470167	1940	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
311091.487	1959515.48	-64.78139	17.71470167	1940	cpm	soil	0.25
311091.837	1959515.1	-64.78138667	17.71469833	1940	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
311093.064	1959513.99	-64.781375	17.71468833	1700	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
311094.379	1959503.46	-64.78136167	17.71459333	2090	cpm	soil	0.25
311095.59	1959500.68	-64.78135	17.71456833	2190	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
311098.188	1959494.94	-64.781325	17.71451667	1890	cpm	soil	0.25
311099.221	1959491.97	-64.781315	17.71449	1960	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311099.869	1959485.7	-64.78130833	17.71443333	1910	cpm	soil	0.25
311100.368	1959482.37	-64.78130333	17.71440333	1920	cpm	soil	0.25
311101.043	1959479.04	-64.78129667	17.71437333	1870	cpm	soil	0.25
311101.899	1959476.08	-64.78128833	17.71434667	1630	cpm	soil	0.25
311102.578	1959473.13	-64.78128167	17.71432	1680	cpm	soil	0.25
311103.259	1959470.35	-64.781275	17.714295	1640	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
311108.024	1959469.38	-64.78123	17.71428667	1810	cpm	soil	0.25
311108.743	1959470.67	-64.78122333	17.71429833	1790	cpm	soil	0.25
311108.596	1959473.81	-64.781225	17.71432667	1660	cpm	soil	0.25
311108.598	1959473.99	-64.781225	17.71432833	1760	cpm	soil	0.25
311108.598	1959473.99	-64.781225	17.71432833	1780	cpm	soil	0.25
311108.598	1959473.99	-64.781225	17.71432833	1820	cpm	soil	0.25
311107.91	1959476.03	-64.78123167	17.71434667	1890	cpm	soil	0.25
311106.522	1959478.81	-64.781245	17.71437167	1750	cpm	soil	0.25
311105.491	1959481.95	-64.781255	17.7144	1800	cpm	soil	0.25
311104.101	1959484.55	-64.78126833	17.71442333	1870	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311103.068	1959487.51	-64.78127833	17.71445	1840	cpm	soil	0.25
311102.21	1959490.29	-64.78128667	17.714475	1750	cpm	soil	0.25
311101.351	1959492.88	-64.781295	17.71449833	1740	cpm	soil	0.25
311100.491	1959495.47	-64.78130333	17.71452167	1700	cpm	soil	0.25
311099.807	1959497.87	-64.78131	17.71454333	1740	cpm	soil	0.25
311099.462	1959498.8	-64.78131333	17.71455167	1770	cpm	soil	0.25
311098.258	1959502.31	-64.781325	17.71458333	1810	cpm	soil	0.25
311098.284	1959505.08	-64.781325	17.71460833	1720	cpm	soil	0.25
311099.177	1959505.99	-64.78131667	17.71461667	1870	cpm	soil	0.25
311102.728	1959507.62	-64.78128333	17.71463167	1980	cpm	soil	0.25
311105.389	1959508.52	-64.78125833	17.71464	2070	cpm	soil	0.25
311106.801	1959508.32	-64.781245	17.71463833	2030	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
311110.6	1959498.69	-64.78120833	17.71455167	1780	cpm	soil	0.25
311111.121	1959497.76	-64.78120333	17.71454333	1760	cpm	soil	0.25
0*	0*	0*	0*	1630	cpm	soil	0.25
311110.346	1959490.58	-64.78121	17.71447833	1490	cpm	soil	0.25
311110.495	1959487.62	-64.78120833	17.71445167	1430	cpm	soil	0.25
311111.178	1959485.04	-64.78120167	17.71442833	1440	cpm	soil	0.25
311112.216	1959482.63	-64.78119167	17.71440667	1320	cpm	soil	0.25
0*	0*	0*	0*	1380	cpm	soil	0.25
311113.06	1959478.38	-64.78118333	17.71436833	1370	cpm	soil	0.25
0*	0*	0*	0*	1450	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25
0*	0*	0*	0*	1460	cpm	soil	0.25
0*	0*	0*	0*	1440	cpm	soil	0.25
0*	0*	0*	0*	1430	cpm	soil	0.25
0*	0*	0*	0*	1420	cpm	soil	0.25
0*	0*	0*	0*	1400	cpm	soil	0.25
311116.767	1959477.79	-64.78114833	17.71436333	1380	cpm	soil	0.25
311116.767	1959477.79	-64.78114833	17.71436333	1410	cpm	soil	0.25
0*	0*	0*	0*	1390	cpm	soil	0.25
0*	0*	0*	0*	1330	cpm	soil	0.25
311114.178	1959484.45	-64.78117333	17.71442333	1420	cpm	soil	0.25
0*	0*	0*	0*	1370	cpm	soil	0.25
0*	0*	0*	0*	1370	cpm	soil	0.25
311113.541	1959491.84	-64.78118	17.71449	1350	cpm	soil	0.25
311113.541	1959491.84	-64.78118	17.71449	1380	cpm	soil	0.25
311113.541	1959491.84	-64.78118	17.71449	1310	cpm	soil	0.25
311113.549	1959492.76	-64.78118	17.71449833	1320	cpm	soil	0.25
311113.745	1959494.79	-64.78117833	17.71451667	1410	cpm	soil	0.25
311113.588	1959496.82	-64.78118	17.714535	1300	cpm	soil	0.25
311113.597	1959497.74	-64.78118	17.71454333	1340	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2130	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
311125.096	1959517.19	-64.78107333	17.71472	2210	cpm	soil	0.25
311126.166	1959518.1	-64.78106333	17.71472833	2140	cpm	soil	0.25
311130.251	1959520.09	-64.781025	17.71474667	2040	cpm	soil	0.25
311131.67	1959520.63	-64.78101167	17.71475167	1950	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311138.95	1959523.88	-64.78094333	17.71478167	1810	cpm	soil	0.25
311141.791	1959525.15	-64.78091667	17.71479333	1840	cpm	soil	0.25
311143.212	1959525.87	-64.78090333	17.7148	1890	cpm	soil	0.25
311147.657	1959528.41	-64.78086167	17.71482333	1970	cpm	soil	0.25
311150.847	1959529.3	-64.78083167	17.71483167	2040	cpm	soil	0.25
311152.617	1959529.47	-64.780815	17.71483333	1950	cpm	soil	0.25
311154.39	1959530.01	-64.78079833	17.71483833	2010	cpm	soil	0.25
311159.174	1959531.07	-64.78075333	17.71484833	1960	cpm	soil	0.25
311160.238	1959531.43	-64.78074333	17.71485167	1910	cpm	soil	0.25
311160.77	1959531.61	-64.78073833	17.71485333	1870	cpm	soil	0.25
311162.897	1959532.14	-64.78071833	17.71485833	1870	cpm	soil	0.25
311165.916	1959533.59	-64.78069	17.71487167	1840	cpm	soil	0.25
311170.177	1959535.39	-64.78065	17.71488833	1780	cpm	soil	0.25
311170.01	1959536.5	-64.78065167	17.71489833	1750	cpm	soil	0.25
311167.886	1959536.15	-64.78067167	17.714895	1730	cpm	soil	0.25
311166.468	1959535.8	-64.780685	17.71489167	1760	cpm	soil	0.25
311162.207	1959533.99	-64.780725	17.714875	1810	cpm	soil	0.25
311159.013	1959532.73	-64.780755	17.71486333	1890	cpm	soil	0.25
311157.415	1959532.01	-64.78077	17.71485667	1870	cpm	soil	0.25
311152.799	1959530.02	-64.78081333	17.71483833	2020	cpm	soil	0.25
311151.201	1959529.3	-64.78082833	17.71483167	2090	cpm	soil	0.25
311146.589	1959527.68	-64.78087167	17.71481667	1900	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
311138.43	1959524.99	-64.78094833	17.71479167	1880	cpm	soil	0.25
311135.768	1959523.91	-64.78097333	17.71478167	1830	cpm	soil	0.25
311132.929	1959522.83	-64.781	17.71477167	1770	cpm	soil	0.25
311130.088	1959521.57	-64.78102667	17.71476	1790	cpm	soil	0.25
311127.247	1959520.3	-64.78105333	17.71474833	1790	cpm	soil	0.25
311124.583	1959519.04	-64.78107833	17.71473667	1720	cpm	soil	0.25
311122.099	1959518.14	-64.78110167	17.71472833	1680	cpm	soil	0.25
311119.792	1959517.24	-64.78112333	17.71472	1690	cpm	soil	0.25
311118.548	1959516.51	-64.781135	17.71471333	1650	cpm	soil	0.25
311116.766	1959515.05	-64.78115167	17.7147	1720	cpm	soil	0.25
311114.449	1959513.04	-64.78117333	17.71468167	1660	cpm	soil	0.25
311111.783	1959511.59	-64.78119833	17.71466833	1700	cpm	soil	0.25
311108.942	1959510.33	-64.781225	17.71465667	1790	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311103.264	1959508.17	-64.78127833	17.71463667	1810	cpm	soil	0.25
311100.778	1959507.09	-64.78130167	17.71462667	1880	cpm	soil	0.25
311098.291	1959505.82	-64.781325	17.714615	1720	cpm	soil	0.25
311097.221	1959504.91	-64.781335	17.71460667	1830	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311091.711	1959501.82	-64.78138667	17.71457833	2250	cpm	soil	0.25
311090.801	1959499.06	-64.781395	17.71455333	2140	cpm	soil	0.25
311090.066	1959496.12	-64.78140167	17.71452667	2320	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311090.338	1959487.45	-64.78139833	17.71444833	2130	cpm	soil	0.25
0*	0*	0*	0*	2380	cpm	soil	0.25
311092.051	1959481.71	-64.78138167	17.71439667	2640	cpm	soil	0.25
0*	0*	0*	0*	2580	cpm	soil	0.25
0*	0*	0*	0*	2350	cpm	soil	0.25
311094.978	1959473.38	-64.78135333	17.71432167	2180	cpm	soil	0.25
311095.836	1959470.61	-64.781345	17.71429667	2030	cpm	soil	0.25
311096.517	1959467.83	-64.78133833	17.71427167	1990	cpm	soil	0.25
311097.033	1959466.35	-64.78133333	17.71425833	2040	cpm	soil	0.25
0*	0*	0*	0*	2180	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
311098.01	1959457.49	-64.78132333	17.71417833	2350	cpm	soil	0.25
311097.807	1959454.72	-64.781325	17.71415333	2370	cpm	soil	0.25
311097.426	1959451.77	-64.78132833	17.71412667	2200	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311095.756	1959443.49	-64.78134333	17.71405167	2010	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
311093.588	1959438.53	-64.78136333	17.71400667	1870	cpm	soil	0.25
311092.327	1959436.14	-64.781375	17.713985	1800	cpm	soil	0.25
311091.783	1959434.67	-64.78138	17.71397167	1960	cpm	soil	0.25
311089.275	1959431.19	-64.78140333	17.71394	2000	cpm	soil	0.25
311088.382	1959430.28	-64.78141167	17.71393167	2040	cpm	soil	0.25
311086.229	1959426.98	-64.78143167	17.71390167	1940	cpm	soil	0.25
311084.44	1959424.78	-64.78144833	17.71388167	2040	cpm	soil	0.25
311082.126	1959423.14	-64.78147	17.71386667	2030	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
311076.592	1959417.47	-64.78152167	17.713815	2300	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
311074.983	1959415.65	-64.78153667	17.71379833	2280	cpm	soil	0.25
311074.983	1959415.65	-64.78153667	17.71379833	2270	cpm	soil	0.25
311074.983	1959415.65	-64.78153667	17.71379833	2090	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2060	cpm	soil	0.25
311074.983	1959415.65	-64.78153667	17.71379833	2170	cpm	soil	0.25
311074.092	1959414.92	-64.781545	17.71379167	2110	cpm	soil	0.25
311072.843	1959413.64	-64.78155667	17.71378	2240	cpm	soil	0.25
311071.953	1959413.09	-64.781565	17.713775	2260	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311068.386	1959409.8	-64.78159833	17.713745	2250	cpm	soil	0.25
311068.386	1959409.8	-64.78159833	17.713745	2110	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
311062.494	1959403.77	-64.78165333	17.71369	1960	cpm	soil	0.25
311059.82	1959401.4	-64.78167833	17.71366833	1920	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
0*	0*	0*	0*	2030	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
311055.358	1959397.01	-64.78172	17.71362833	2070	cpm	soil	0.25
0*	0*	0*	0*	2080	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311061.238	1959401.75	-64.781665	17.71367167	1950	cpm	soil	0.25
311062.312	1959403.22	-64.781655	17.713685	1950	cpm	soil	0.25
311062.846	1959403.58	-64.78165	17.71368833	2090	cpm	soil	0.25
311065.162	1959405.41	-64.78162833	17.713705	2110	cpm	soil	0.25
311066.769	1959407.05	-64.78161333	17.71372	2130	cpm	soil	0.25
311068.02	1959408.52	-64.78160167	17.71373333	2190	cpm	soil	0.25
311069.977	1959409.79	-64.78158333	17.713745	2300	cpm	soil	0.25
311070.693	1959410.7	-64.78157667	17.71375333	2340	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
311074.623	1959414.91	-64.78154	17.71379167	2330	cpm	soil	0.25
311076.585	1959416.74	-64.78152167	17.71380833	2300	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311084.262	1959424.6	-64.78145	17.71388	1950	cpm	soil	0.25
311086.403	1959426.61	-64.78143	17.71389833	1840	cpm	soil	0.25
311088.368	1959428.8	-64.78141167	17.71391833	1830	cpm	soil	0.25
311089.261	1959429.71	-64.78140333	17.71392667	1800	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311090.878	1959432.47	-64.78138833	17.71395167	1830	cpm	soil	0.25
311090.878	1959432.47	-64.78138833	17.71395167	1880	cpm	soil	0.25
311091.242	1959433.57	-64.781385	17.71396167	1810	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
311092	1959438.91	-64.78137833	17.71401	2030	cpm	soil	0.25
311092.732	1959441.49	-64.78137167	17.71403333	1940	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311094.34	1959443.32	-64.78135667	17.71405	1920	cpm	soil	0.25
311095.054	1959444.05	-64.78135	17.71405667	1950	cpm	soil	0.25
311097.037	1959448.09	-64.78133167	17.71409333	1860	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
311099.376	1959452.31	-64.78131	17.71413167	1930	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
311099.757	1959455.26	-64.78130667	17.71415833	2090	cpm	soil	0.25
311100.128	1959457.1	-64.78130333	17.714175	2180	cpm	soil	0.25
311100.492	1959458.2	-64.7813	17.714185	2220	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311100.382	1959465.21	-64.78130167	17.71424833	2330	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311098.658	1959469.84	-64.78131833	17.71429	2250	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
311096.265	1959478.54	-64.78134167	17.71436833	2090	cpm	soil	0.25
311095.925	1959480.01	-64.781345	17.71438167	1950	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311095.582	1959481.12	-64.78134833	17.71439167	1960	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
311094.395	1959486.49	-64.78136	17.71444	1960	cpm	soil	0.25
311093.712	1959489.07	-64.78136667	17.71446333	1910	cpm	soil	0.25
311093.192	1959490.19	-64.78137167	17.71447333	2000	cpm	soil	0.25
311091.279	1959493.52	-64.78139	17.71450333	2120	cpm	soil	0.25
311089.173	1959495.21	-64.78141	17.71451833	2110	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311078.958	1959499.36	-64.78150667	17.714555	2170	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
311071.344	1959498.14	-64.78157833	17.71454333	1970	cpm	soil	0.25
311070.278	1959497.6	-64.78158833	17.71453833	1970	cpm	soil	0.25
311066.903	1959495.97	-64.78162	17.71452333	2050	cpm	soil	0.25
311065.118	1959494.14	-64.78163667	17.71450667	2210	cpm	soil	0.25
311062.981	1959492.5	-64.78165667	17.71449167	2260	cpm	soil	0.25
311060.492	1959491.05	-64.78168	17.71447833	2480	cpm	soil	0.25
311057.829	1959489.97	-64.781705	17.71446833	2470	cpm	soil	0.25
311055.699	1959489.07	-64.781725	17.71446	2680	cpm	soil	0.25
0*	0*	0*	0*	2780	cpm	soil	0.25
311051.264	1959487.45	-64.78176667	17.714445	2760	cpm	soil	0.25
311048.957	1959486.55	-64.78178833	17.71443667	2610	cpm	soil	0.25
311046.651	1959485.83	-64.78181	17.71443	2430	cpm	soil	0.25
0*	0*	0*	0*	2460	cpm	soil	0.25
311042.214	1959484.03	-64.78185167	17.71441333	2600	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311037.6	1959482.23	-64.781895	17.71439667	2420	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
311033.159	1959480.05	-64.78193667	17.71437667	2180	cpm	soil	0.25
311032.094	1959479.51	-64.78194667	17.71437167	2130	cpm	soil	0.25
311029.429	1959478.25	-64.78197167	17.71436	2200	cpm	soil	0.25
311027.299	1959477.34	-64.78199167	17.71435167	2080	cpm	soil	0.25
311024.992	1959476.44	-64.78201333	17.71434333	2070	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
311015.052	1959472.29	-64.78210667	17.714305	2260	cpm	soil	0.25
311012.566	1959471.21	-64.78213	17.714295	2370	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
311005.465	1959468.14	-64.78219667	17.71426667	2310	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
310998.364	1959465.07	-64.78226333	17.71423833	2130	cpm	soil	0.25
310995.88	1959464.17	-64.78228667	17.71423	2130	cpm	soil	0.25
310993.571	1959463.09	-64.78230833	17.71422	2230	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310988.423	1959460.92	-64.78235667	17.7142	2170	cpm	soil	0.25
310987.181	1959460.38	-64.78236833	17.714195	2300	cpm	soil	0.25
310985.218	1959458.56	-64.78238667	17.71417833	2350	cpm	soil	0.25
310985.033	1959457.64	-64.78238833	17.71417	2380	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
310984.452	1959452.29	-64.78239333	17.71412167	2320	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
310981.933	1959447.7	-64.78241667	17.71408	2170	cpm	soil	0.25
310980.498	1959445.5	-64.78243	17.71406	1980	cpm	soil	0.25
310979.766	1959442.93	-64.78243667	17.71403667	1930	cpm	soil	0.25
310979.211	1959440.35	-64.78244167	17.71401333	1940	cpm	soil	0.25
310979.008	1959437.58	-64.78244333	17.71398833	2110	cpm	soil	0.25
310978.986	1959435.19	-64.78244333	17.71396667	2060	cpm	soil	0.25
310978.8	1959434.27	-64.782445	17.71395833	2320	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
310979.1	1959428.54	-64.78244167	17.71390667	2270	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
310979.418	1959424.85	-64.78243833	17.71387333	2300	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
310980.413	1959417.83	-64.78242833	17.71381	2140	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
310982.844	1959413.2	-64.782405	17.71376833	2460	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2450	cpm	soil	0.25
310980.315	1959407.5	-64.78242833	17.71371667	2470	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
310971.325	1959410.35	-64.78251333	17.71374167	2600	cpm	soil	0.25
310969.716	1959408.52	-64.78252833	17.713725	2630	cpm	soil	0.25
310968.81	1959406.13	-64.78253667	17.71370333	2620	cpm	soil	0.25
310968.607	1959403.37	-64.78253833	17.71367833	2590	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
310967.675	1959398.4	-64.78254667	17.71363333	2780	cpm	soil	0.25
310966.067	1959396.57	-64.78256167	17.71361667	2570	cpm	soil	0.25
310964.987	1959394.55	-64.78257167	17.71359833	2580	cpm	soil	0.25
310964.446	1959393.45	-64.78257667	17.71358833	2590	cpm	soil	0.25
310963.349	1959389.58	-64.78258667	17.71355333	2460	cpm	soil	0.25
310962.085	1959386.83	-64.78259833	17.71352833	2720	cpm	soil	0.25
310960.473	1959384.63	-64.78261333	17.71350833	2870	cpm	soil	0.25
310959.757	1959383.71	-64.78262	17.7135	3170	cpm	soil	0.25
0*	0*	0*	0*	3180	cpm	soil	0.25
0*	0*	0*	0*	2970	cpm	soil	0.25
310956.505	1959376.37	-64.78265	17.71343333	2970	cpm	soil	0.25
310956.482	1959373.97	-64.78265	17.71341167	3120	cpm	soil	0.25
310956.279	1959371.2	-64.78265167	17.71338667	3110	cpm	soil	0.25
310955.546	1959368.44	-64.78265833	17.71336167	2840	cpm	soil	0.25
310955.357	1959367.15	-64.78266	17.71335	2650	cpm	soil	0.25
310954.616	1959363.65	-64.78266667	17.71331833	2480	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
310955.999	1959360.32	-64.78265333	17.71328833	2750	cpm	soil	0.25
310957.946	1959360.49	-64.782635	17.71329	2560	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
310959.938	1959365.45	-64.78261667	17.713335	2370	cpm	soil	0.25
0*	0*	0*	0*	2380	cpm	soil	0.25
310962.432	1959367.45	-64.78259333	17.71335333	2600	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2810	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2890	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2990	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2880	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2780	cpm	soil	0.25
310962.784	1959367.27	-64.78259	17.71335167	2770	cpm	soil	0.25
310963.666	1959367.07	-64.78258167	17.71335	2810	cpm	soil	0.25
310967.013	1959365.75	-64.78255	17.71333833	2770	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
310969.453	1959362.04	-64.78252667	17.713305	2650	cpm	soil	0.25
310967.499	1959361.13	-64.782545	17.71329667	2640	cpm	soil	0.25
310966.083	1959360.96	-64.78255833	17.713295	2680	cpm	soil	0.25
310962.728	1959361.36	-64.78259	17.71329833	2760	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310960.949	1959360.27	-64.78260667	17.71328833	2560	cpm	soil	0.25
310960.06	1959359.73	-64.782615	17.71328333	2750	cpm	soil	0.25
310960.06	1959359.73	-64.782615	17.71328333	2910	cpm	soil	0.25
310960.06	1959359.73	-64.782615	17.71328333	2970	cpm	soil	0.25
310960.577	1959358.25	-64.78261	17.71327	2600	cpm	soil	0.25
310960.391	1959357.33	-64.78261167	17.71326167	2560	cpm	soil	0.25
310959.313	1959355.49	-64.78262167	17.713245	2330	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310961.907	1959349.38	-64.78259667	17.71319	2180	cpm	soil	0.25
310964.202	1959348.99	-64.782575	17.71318667	2030	cpm	soil	0.25
310965.979	1959349.9	-64.78255833	17.713195	2060	cpm	soil	0.25
310966.869	1959350.63	-64.78255	17.71320167	2040	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
310967.965	1959354.3	-64.78254	17.713235	2160	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
310964.625	1959356.37	-64.78257167	17.71325333	2100	cpm	soil	0.25
310961.611	1959355.47	-64.7826	17.713245	2000	cpm	soil	0.25
310960.013	1959354.75	-64.782615	17.71323833	2010	cpm	soil	0.25
310959.465	1959352.91	-64.78262	17.71322167	1850	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
310959.966	1959349.77	-64.782615	17.71319333	1860	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310959.961	1959349.22	-64.782615	17.71318833	2100	cpm	soil	0.25
310959.961	1959349.22	-64.782615	17.71318833	2020	cpm	soil	0.25
310959.604	1959348.85	-64.78261833	17.713185	2300	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
310962.942	1959346.6	-64.78258667	17.713165	2640	cpm	soil	0.25
310964.876	1959345.48	-64.78256833	17.713155	2680	cpm	soil	0.25
310965.224	1959344.92	-64.782565	17.71315	2660	cpm	soil	0.25
310965.557	1959342.71	-64.78256167	17.71313	2670	cpm	soil	0.25
310964.657	1959341.05	-64.78257	17.713115	2710	cpm	soil	0.25
310963.577	1959339.03	-64.78258	17.71309667	2670	cpm	soil	0.25
310962.32	1959337.02	-64.78259167	17.71307833	2630	cpm	soil	0.25
310961.416	1959334.81	-64.7826	17.71305833	2600	cpm	soil	0.25
310960.334	1959332.61	-64.78261	17.71303833	2530	cpm	soil	0.25
310958.899	1959330.41	-64.78262333	17.71301833	2750	cpm	soil	0.25
310957.638	1959328.02	-64.782635	17.71299667	2820	cpm	soil	0.25
310956.203	1959325.82	-64.78264833	17.71297667	2740	cpm	soil	0.25
310955.309	1959324.72	-64.78265667	17.71296667	2720	cpm	soil	0.25
310953.156	1959321.42	-64.78267667	17.71293667	2750	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
310951.356	1959318.12	-64.78269333	17.71290667	2660	cpm	soil	0.25
310949.594	1959318.69	-64.78271	17.71291167	2890	cpm	soil	0.25
0*	0*	0*	0*	2840	cpm	soil	0.25
310947.322	1959321.48	-64.78273167	17.71293667	2690	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310951.437	1959326.61	-64.78269333	17.71298333	2790	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
310954.663	1959331.19	-64.78266333	17.713025	2810	cpm	soil	0.25
310955.559	1959332.47	-64.782655	17.71303667	2620	cpm	soil	0.25
310957.349	1959334.85	-64.78263833	17.71305833	2620	cpm	soil	0.25
310958.435	1959337.42	-64.78262833	17.71308167	2580	cpm	soil	0.25
310958.813	1959340	-64.782625	17.713105	2610	cpm	soil	0.25
310958.114	1959340.93	-64.78263167	17.71311333	2450	cpm	soil	0.25
310955.285	1959340.96	-64.78265833	17.71311333	2590	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
310951.345	1959335.65	-64.782695	17.713065	2270	cpm	soil	0.25
310950.626	1959334.36	-64.78270167	17.71305333	2430	cpm	soil	0.25
310949.55	1959332.71	-64.78271167	17.71303833	2450	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
310949.189	1959331.98	-64.782715	17.71303167	2610	cpm	soil	0.25
310948.113	1959330.33	-64.782725	17.71301667	2790	cpm	soil	0.25
310947.209	1959328.31	-64.78273333	17.71299833	2750	cpm	soil	0.25
310947.026	1959327.57	-64.782735	17.71299167	2830	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
310944.32	1959321.88	-64.78276	17.71294	2660	cpm	soil	0.25
310943.602	1959320.78	-64.78276667	17.71293	2770	cpm	soil	0.25
310940.565	1959317.48	-64.782795	17.7129	2660	cpm	soil	0.25
310938.953	1959315.29	-64.78281	17.71288	2570	cpm	soil	0.25
310938.235	1959314.19	-64.78281667	17.71287	2530	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
310934.313	1959310.72	-64.78285333	17.71283833	2290	cpm	soil	0.25
310932.884	1959309.26	-64.78286667	17.712825	2060	cpm	soil	0.25
310931.631	1959307.61	-64.78287833	17.71281	2130	cpm	soil	0.25
310930.738	1959306.69	-64.78288667	17.71280167	2120	cpm	soil	0.25
310929.132	1959305.05	-64.78290167	17.71278667	2260	cpm	soil	0.25
310925.545	1959299.73	-64.782935	17.71273833	2470	cpm	soil	0.25
310926.233	1959297.7	-64.78292833	17.71272	2580	cpm	soil	0.25
0*	0*	0*	0*	2670	cpm	soil	0.25
310929.779	1959298.77	-64.782895	17.71273	2520	cpm	soil	0.25
310930.674	1959299.87	-64.78288667	17.71274	2400	cpm	soil	0.25
310932.111	1959302.25	-64.78287333	17.71276167	2710	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2530	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2540	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2570	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2520	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2490	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2490	cpm	soil	0.25
310932.65	1959303.17	-64.78286833	17.71277	2450	cpm	soil	0.25
310933.009	1959303.72	-64.782865	17.712775	2500	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310934.805	1959306.65	-64.78284833	17.71280167	2600	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
0*	0*	0*	0*	2510	cpm	soil	0.25
310938.57	1959312.15	-64.78281333	17.71285167	2690	cpm	soil	0.25
310940.899	1959315.45	-64.78279167	17.71288167	2840	cpm	soil	0.25
310942.863	1959317.46	-64.78277333	17.7129	2780	cpm	soil	0.25
310943.928	1959317.82	-64.78276333	17.71290333	2770	cpm	soil	0.25
310946.737	1959315.77	-64.78273667	17.712885	2680	cpm	soil	0.25
310947.435	1959314.84	-64.78273	17.71287667	2430	cpm	soil	0.25
0*	0*	0*	0*	2560	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
310955.272	1959320.85	-64.78265667	17.71293167	2360	cpm	soil	0.25
310955.993	1959322.32	-64.78265	17.712945	2620	cpm	soil	0.25
310957.787	1959325.07	-64.78263333	17.71297	2610	cpm	soil	0.25
310960.299	1959328.92	-64.78261	17.713005	2550	cpm	soil	0.25
310961.736	1959331.3	-64.78259667	17.71302667	2820	cpm	soil	0.25
310963.35	1959333.69	-64.78258167	17.71304833	2660	cpm	soil	0.25
310964.964	1959336.07	-64.78256667	17.71307	2520	cpm	soil	0.25
310966.397	1959338.09	-64.78255333	17.71308833	2850	cpm	soil	0.25
310967.113	1959339	-64.78254667	17.71309667	2810	cpm	soil	0.25
310968.888	1959339.72	-64.78253	17.71310333	2830	cpm	soil	0.25
310970.292	1959338.6	-64.78251667	17.71309333	2700	cpm	soil	0.25
310972.408	1959338.03	-64.78249667	17.71308833	3010	cpm	soil	0.25
310975.399	1959336.52	-64.78246833	17.713075	2910	cpm	soil	0.25
310977.159	1959335.59	-64.78245167	17.71306667	3110	cpm	soil	0.25
310978.563	1959334.47	-64.78243833	17.71305667	3130	cpm	soil	0.25
310980.674	1959333.34	-64.78241833	17.71304667	2890	cpm	soil	0.25
310982.251	1959331.85	-64.78240333	17.71303333	3120	cpm	soil	0.25
310984.185	1959330.72	-64.782385	17.71302333	2730	cpm	soil	0.25
0*	0*	0*	0*	2780	cpm	soil	0.25
310988.582	1959328.28	-64.78234333	17.71300167	2600	cpm	soil	0.25
310991.225	1959327.34	-64.78231833	17.71299333	2570	cpm	soil	0.25
0*	0*	0*	0*	2890	cpm	soil	0.25
310996.686	1959325.25	-64.78226667	17.712975	2660	cpm	soil	0.25
310999.155	1959324.49	-64.78224333	17.71296833	2650	cpm	soil	0.25
0*	0*	0*	0*	2450	cpm	soil	0.25
311001.943	1959320.22	-64.78221667	17.71293	2470	cpm	soil	0.25
311003.884	1959319.84	-64.78219833	17.71292667	2420	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
311007.46	1959324.05	-64.782165	17.712965	2420	cpm	soil	0.25
311009.078	1959326.8	-64.78215	17.71299	2550	cpm	soil	0.25
311009.799	1959328.27	-64.78214333	17.71300333	2380	cpm	soil	0.25
311010.534	1959331.21	-64.78213667	17.71303	2430	cpm	soil	0.25
311010.017	1959332.69	-64.78214167	17.71304333	2760	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
311006.993	1959330.69	-64.78217	17.713025	2690	cpm	soil	0.25
311006.438	1959328.11	-64.782175	17.71300167	2510	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311005.881	1959325.35	-64.78218	17.71297667	2530	cpm	soil	0.25
311005.146	1959322.41	-64.78218667	17.71295	2570	cpm	soil	0.25
311004.602	1959320.94	-64.78219167	17.71293667	2530	cpm	soil	0.25
311001.899	1959315.61	-64.78221667	17.71288833	2590	cpm	soil	0.25
311001.182	1959314.51	-64.78222333	17.71287833	2600	cpm	soil	0.25
311000.112	1959313.6	-64.78223333	17.71287	2440	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
310994.94	1959308.85	-64.78228167	17.71282667	2240	cpm	soil	0.25
310993.154	1959307.02	-64.78229833	17.71281	2330	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
310989.23	1959303.37	-64.782335	17.71277667	2580	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
310986.36	1959298.97	-64.78236167	17.71273667	2580	cpm	soil	0.25
310985.453	1959296.58	-64.78237	17.712715	2880	cpm	soil	0.25
0*	0*	0*	0*	2970	cpm	soil	0.25
310983.463	1959291.8	-64.78238833	17.71267167	3050	cpm	soil	0.25
310982.563	1959290.15	-64.78239667	17.71265667	3040	cpm	soil	0.25
310982.203	1959289.42	-64.7824	17.71265	2870	cpm	soil	0.25
310980.764	1959286.85	-64.78241333	17.71262667	2910	cpm	soil	0.25
310978.956	1959282.62	-64.78243	17.71258833	2910	cpm	soil	0.25
310977.879	1959280.97	-64.78244	17.71257333	2840	cpm	soil	0.25
310976.449	1959279.33	-64.78245333	17.71255833	2900	cpm	soil	0.25
0*	0*	0*	0*	2840	cpm	soil	0.25
0*	0*	0*	0*	2800	cpm	soil	0.25
310972.345	1959275.31	-64.78249167	17.71252167	2880	cpm	soil	0.25
0*	0*	0*	0*	2820	cpm	soil	0.25
310969.141	1959273.12	-64.78252167	17.71250167	2840	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
310968.205	1959267.6	-64.78253	17.71245167	2640	cpm	soil	0.25
0*	0*	0*	0*	2680	cpm	soil	0.25
310965.333	1959263.01	-64.78255667	17.71241	2730	cpm	soil	0.25
0*	0*	0*	0*	2850	cpm	soil	0.25
310962.285	1959258.61	-64.782585	17.71237	2850	cpm	soil	0.25
310960.671	1959256.23	-64.7826	17.71234833	2590	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
0*	0*	0*	0*	2720	cpm	soil	0.25
310954.575	1959247.25	-64.78265667	17.71226667	2650	cpm	soil	0.25
310953.322	1959245.6	-64.78266833	17.71225167	2720	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
310951.701	1959242.48	-64.78268333	17.71222333	2590	cpm	soil	0.25
310951.493	1959239.16	-64.782685	17.71219333	2620	cpm	soil	0.25
310950.943	1959237.14	-64.78269	17.712175	2590	cpm	soil	0.25
310950.22	1959235.48	-64.78269667	17.71216	2770	cpm	soil	0.25
0*	0*	0*	0*	2950	cpm	soil	0.25
310949.145	1959234.02	-64.78270667	17.71214667	2960	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310948.069	1959232.37	-64.78271667	17.71213167	3070	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
310945.921	1959229.62	-64.78273667	17.71210667	3290	cpm	soil	0.25
0*	0*	0*	0*	3330	cpm	soil	0.25
310944.297	1959226.13	-64.78275167	17.712075	3100	cpm	soil	0.25
310943.749	1959224.29	-64.78275667	17.71205833	2720	cpm	soil	0.25
310942.674	1959222.83	-64.78276667	17.712045	2710	cpm	soil	0.25
0*	0*	0*	0*	2760	cpm	soil	0.25
0*	0*	0*	0*	2590	cpm	soil	0.25
310939.984	1959218.79	-64.78279167	17.71200833	2530	cpm	soil	0.25
310938.545	1959216.22	-64.782805	17.711985	2410	cpm	soil	0.25
310937.819	1959214.2	-64.78281167	17.71196667	2560	cpm	soil	0.25
310936.919	1959212.55	-64.78282	17.71195167	2400	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
310934.236	1959209.26	-64.782845	17.71192167	2770	cpm	soil	0.25
310934.236	1959209.26	-64.782845	17.71192167	2600	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
310932.079	1959205.59	-64.782865	17.71188833	2620	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
310928.848	1959200.45	-64.782895	17.71184167	2510	cpm	soil	0.25
310928.132	1959199.54	-64.78290167	17.71183333	2420	cpm	soil	0.25
310926.513	1959196.6	-64.78291667	17.71180667	2700	cpm	soil	0.25
0*	0*	0*	0*	2720	cpm	soil	0.25
0*	0*	0*	0*	2900	cpm	soil	0.25
310922.571	1959191.1	-64.78295333	17.71175667	2640	cpm	soil	0.25
310922.034	1959190.37	-64.78295833	17.71175	2630	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
310920.075	1959188.91	-64.78297667	17.71173667	2460	cpm	soil	0.25
310918.469	1959187.27	-64.78299167	17.71172167	2650	cpm	soil	0.25
310916.865	1959185.99	-64.78300667	17.71171	2580	cpm	soil	0.25
310916.151	1959185.26	-64.78301333	17.71170333	2620	cpm	soil	0.25
310914.182	1959182.7	-64.78303167	17.71168	2880	cpm	soil	0.25
310913.818	1959181.59	-64.783035	17.71167	2920	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
310912.178	1959176.44	-64.78305	17.71162333	2610	cpm	soil	0.25
310911.817	1959175.71	-64.78305333	17.71161667	2600	cpm	soil	0.25
310910.025	1959173.14	-64.78307	17.71159333	2590	cpm	soil	0.25
0*	0*	0*	0*	2650	cpm	soil	0.25
310908.232	1959170.58	-64.78308667	17.71157	2700	cpm	soil	0.25
310907.161	1959169.48	-64.78309667	17.71156	2740	cpm	soil	0.25
310905.735	1959168.2	-64.78311	17.71154833	2740	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310901.789	1959162.34	-64.78314667	17.711495	2640	cpm	soil	0.25
310900.536	1959160.69	-64.78315833	17.71148	2920	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
310898.036	1959158.13	-64.78318167	17.71145667	2870	cpm	soil	0.25
310895.712	1959155.38	-64.78320333	17.71143167	2770	cpm	soil	0.25
0*	0*	0*	0*	2770	cpm	soil	0.25
0*	0*	0*	0*	2800	cpm	soil	0.25
310890.357	1959150.08	-64.78325333	17.71138333	2770	cpm	soil	0.25
0*	0*	0*	0*	2810	cpm	soil	0.25
310888.385	1959147.15	-64.78327167	17.71135667	2990	cpm	soil	0.25
0*	0*	0*	0*	2920	cpm	soil	0.25
310885.162	1959142.94	-64.78330167	17.71131833	2730	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2590	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2410	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2480	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2590	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2640	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2570	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2630	cpm	soil	0.25
0*	0*	0*	0*	2770	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2730	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2790	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2750	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2630	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2580	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2750	cpm	soil	0.25
310882.124	1959139.46	-64.78333	17.71128667	2690	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
310880.515	1959137.63	-64.783345	17.71127	2910	cpm	soil	0.25
0*	0*	0*	0*	2860	cpm	soil	0.25
310876.757	1959132.87	-64.78338	17.71122667	2640	cpm	soil	0.25
310875.147	1959130.86	-64.783395	17.71120833	2710	cpm	soil	0.25
310873.886	1959128.47	-64.78340667	17.71118667	2730	cpm	soil	0.25
310873.345	1959127.37	-64.78341167	17.71117667	2970	cpm	soil	0.25
0*	0*	0*	0*	2730	cpm	soil	0.25
310870.823	1959122.41	-64.783435	17.71113167	2620	cpm	soil	0.25
310870.799	1959119.83	-64.783435	17.71110833	2520	cpm	soil	0.25
310870.596	1959117.07	-64.78343667	17.71108333	2660	cpm	soil	0.25
310870.746	1959114.3	-64.783435	17.71105833	2720	cpm	soil	0.25
310869.313	1959112.28	-64.78344833	17.71104	2510	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
310865.969	1959113.97	-64.78348	17.711055	2850	cpm	soil	0.25
310865.803	1959115.08	-64.78348167	17.711065	2800	cpm	soil	0.25
310864.777	1959118.78	-64.78349167	17.71109833	3310	cpm	soil	0.25
310863.741	1959121.37	-64.78350167	17.71112167	3200	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310862.524	1959123.6	-64.78351333	17.71114167	2900	cpm	soil	0.25
0*	0*	0*	0*	2860	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
310862.941	1959130.24	-64.78351	17.71120167	2820	cpm	soil	0.25
310864.373	1959132.07	-64.78349667	17.71121833	2780	cpm	soil	0.25
310865.444	1959133.16	-64.78348667	17.71122833	2750	cpm	soil	0.25
0*	0*	0*	0*	2730	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
0*	0*	0*	0*	2590	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
310870.611	1959137.36	-64.78343833	17.71126667	2640	cpm	soil	0.25
310872.747	1959138.81	-64.78341833	17.71128	2730	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
310876.139	1959142.29	-64.78338667	17.71131167	2700	cpm	soil	0.25
310878.274	1959143.74	-64.78336667	17.711325	2850	cpm	soil	0.25
310880.408	1959145.01	-64.78334667	17.71133667	2830	cpm	soil	0.25
0*	0*	0*	0*	2810	cpm	soil	0.25
0*	0*	0*	0*	2560	cpm	soil	0.25
310886.097	1959148.28	-64.78329333	17.71136667	2580	cpm	soil	0.25
310887.531	1959150.3	-64.78328	17.711385	2700	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
0*	0*	0*	0*	2760	cpm	soil	0.25
310893.631	1959159.65	-64.78322333	17.71147	2680	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
310896.144	1959163.68	-64.7832	17.71150667	2790	cpm	soil	0.25
310894.919	1959164.98	-64.78321167	17.71151833	2850	cpm	soil	0.25
310893.315	1959163.71	-64.78322667	17.71150667	3080	cpm	soil	0.25
310891.885	1959162.06	-64.78324	17.71149167	3020	cpm	soil	0.25
310889.746	1959160.24	-64.78326	17.711475	3320	cpm	soil	0.25
0*	0*	0*	0*	3440	cpm	soil	0.25
310886.895	1959157.87	-64.78328667	17.71145333	3380	cpm	soil	0.25
0*	0*	0*	0*	3230	cpm	soil	0.25
310883.49	1959153.1	-64.78331833	17.71141	2990	cpm	soil	0.25
310881.884	1959151.46	-64.78333333	17.711395	2680	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
310879.543	1959147.05	-64.783355	17.711355	2470	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
310876.158	1959144.32	-64.78338667	17.71133	2730	cpm	soil	0.25
310873.317	1959143.05	-64.78341333	17.71131833	2650	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
310868.353	1959141.62	-64.78346	17.711305	2380	cpm	soil	0.25
310864.978	1959139.99	-64.78349167	17.71129	2510	cpm	soil	0.25
310862.671	1959139.09	-64.78351333	17.71128167	2470	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
0*	0*	0*	0*	2430	cpm	soil	0.25
310855.606	1959139.9	-64.78358	17.71128833	2760	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2710	cpm	soil	0.25
310852.603	1959140.11	-64.78360833	17.71129	2800	cpm	soil	0.25
310850.84	1959140.68	-64.783625	17.711295	2570	cpm	soil	0.25
0*	0*	0*	0*	2550	cpm	soil	0.25
310846.961	1959141.83	-64.78366167	17.711305	2370	cpm	soil	0.25
310845.38	1959142.95	-64.78367667	17.711315	2510	cpm	soil	0.25
0*	0*	0*	0*	2670	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
310841.888	1959147.59	-64.78371	17.71135667	2600	cpm	soil	0.25
310840.493	1959149.63	-64.78372333	17.711375	2640	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
0*	0*	0*	0*	2940	cpm	soil	0.25
0*	0*	0*	0*	3050	cpm	soil	0.25
0*	0*	0*	0*	2810	cpm	soil	0.25
310835.833	1959161.67	-64.78376833	17.71148333	2960	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
310834.823	1959167.03	-64.78377833	17.71153167	2700	cpm	soil	0.25
310834.48	1959168.14	-64.78378167	17.71154167	2550	cpm	soil	0.25
0*	0*	0*	0*	2900	cpm	soil	0.25
0*	0*	0*	0*	2790	cpm	soil	0.25
0*	0*	0*	0*	2820	cpm	soil	0.25
0*	0*	0*	0*	2880	cpm	soil	0.25
310831.417	1959180.71	-64.78381167	17.711655	2880	cpm	soil	0.25
310830.718	1959181.64	-64.78381833	17.71166333	2770	cpm	soil	0.25
310829.334	1959184.79	-64.78383167	17.71169167	2570	cpm	soil	0.25
310829.167	1959185.9	-64.78383333	17.71170167	2570	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
310827.445	1959190.71	-64.78385	17.711745	2710	cpm	soil	0.25
310827.1	1959191.64	-64.78385333	17.71175333	2550	cpm	soil	0.25
310826.419	1959194.41	-64.78386	17.71177833	2350	cpm	soil	0.25
310825.906	1959196.26	-64.783865	17.711795	2340	cpm	soil	0.25
310825.736	1959197	-64.78386667	17.71180167	2380	cpm	soil	0.25
310826.118	1959199.95	-64.78386333	17.71182833	2460	cpm	soil	0.25
310826.843	1959201.79	-64.78385667	17.711845	2420	cpm	soil	0.25
310827.916	1959203.07	-64.78384667	17.71185667	2390	cpm	soil	0.25
310829.517	1959204.16	-64.78383167	17.71186667	2340	cpm	soil	0.25
310830.406	1959204.7	-64.78382333	17.71187167	2270	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
310835.39	1959208.16	-64.78377667	17.71190333	2120	cpm	soil	0.25
310838.409	1959209.61	-64.78374833	17.71191667	1860	cpm	soil	0.25
310840.541	1959210.7	-64.78372833	17.71192667	1790	cpm	soil	0.25
310842.673	1959211.78	-64.78370833	17.71193667	1790	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
310846.23	1959213.96	-64.783675	17.71195667	1980	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310849.253	1959215.78	-64.78364667	17.71197333	1930	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310850.855	1959216.87	-64.78363167	17.71198333	1990	cpm	soil	0.25
310852.815	1959218.51	-64.78361333	17.71199833	2080	cpm	soil	0.25
310853.888	1959219.79	-64.78360333	17.71201	2110	cpm	soil	0.25
310855.315	1959221.07	-64.78359	17.71202167	2140	cpm	soil	0.25
310857.109	1959223.82	-64.78357333	17.71204667	2150	cpm	soil	0.25
310856.785	1959226.96	-64.78357667	17.712075	2110	cpm	soil	0.25
310855.924	1959229.37	-64.783585	17.71209667	2310	cpm	soil	0.25
310855.236	1959231.4	-64.78359167	17.712115	2120	cpm	soil	0.25
310854.546	1959233.25	-64.78359833	17.71213167	2270	cpm	soil	0.25
310853.858	1959235.29	-64.783605	17.71215	2180	cpm	soil	0.25
310853.869	1959236.4	-64.783605	17.71216	2120	cpm	soil	0.25
310854.427	1959239.34	-64.7836	17.71218667	2220	cpm	soil	0.25
310855.153	1959241.37	-64.78359333	17.712205	2480	cpm	soil	0.25
310855.516	1959242.28	-64.78359	17.71221333	2230	cpm	soil	0.25
310856.074	1959245.23	-64.783585	17.71224	2290	cpm	soil	0.25
310856.454	1959247.99	-64.78358167	17.712265	2320	cpm	soil	0.25
310856.128	1959250.95	-64.783585	17.71229167	2280	cpm	soil	0.25
310856.676	1959252.79	-64.78358	17.71230833	2220	cpm	soil	0.25
310857.051	1959255	-64.78357667	17.71232833	2440	cpm	soil	0.25
310857.063	1959256.29	-64.78357667	17.71234	2590	cpm	soil	0.25
310856.907	1959258.51	-64.78357833	17.71236	2740	cpm	soil	0.25
310856.222	1959260.91	-64.783585	17.71238167	2520	cpm	soil	0.25
310855.197	1959264.61	-64.783595	17.712415	2460	cpm	soil	0.25
310855.043	1959267.01	-64.78359667	17.71243667	2370	cpm	soil	0.25
310855.232	1959268.3	-64.783595	17.71244833	2580	cpm	soil	0.25
310855.443	1959271.99	-64.78359333	17.71248167	2600	cpm	soil	0.25
310855.468	1959274.57	-64.78359333	17.712505	2500	cpm	soil	0.25
310855.135	1959276.79	-64.78359667	17.712525	2500	cpm	soil	0.25
310854.272	1959279.01	-64.783605	17.712545	2440	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
310853.056	1959281.23	-64.78361667	17.712565	2330	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
310850.108	1959287.35	-64.783645	17.71262	2410	cpm	soil	0.25
310849.763	1959288.27	-64.78364833	17.71262833	2180	cpm	soil	0.25
310848.021	1959291.06	-64.783665	17.71265333	2220	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
310845.767	1959295.69	-64.78368667	17.712695	2200	cpm	soil	0.25
310845.425	1959296.99	-64.78369	17.71270667	2250	cpm	soil	0.25
310845.084	1959298.28	-64.78369333	17.71271833	2320	cpm	soil	0.25
310843.88	1959301.8	-64.783705	17.71275	2310	cpm	soil	0.25
0*	0*	0*	0*	2180	cpm	soil	0.25
310842.155	1959306.43	-64.78372167	17.71279167	2250	cpm	soil	0.25
310840.939	1959308.65	-64.78373333	17.71281167	2300	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
0*	0*	0*	0*	2730	cpm	soil	0.25
310837.982	1959313.84	-64.78376167	17.71285833	2780	cpm	soil	0.25
310837.459	1959314.59	-64.78376667	17.712865	2680	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310835.171	1959315.72	-64.78378833	17.712875	2740	cpm	soil	0.25
0*	0*	0*	0*	2430	cpm	soil	0.25
310832.362	1959317.77	-64.783815	17.71289333	2270	cpm	soil	0.25
310831.312	1959318.89	-64.783825	17.71290333	2220	cpm	soil	0.25
310830.797	1959320.55	-64.78383	17.71291833	2350	cpm	soil	0.25
310830.286	1959322.59	-64.783835	17.71293667	2530	cpm	soil	0.25
310829.61	1959325.91	-64.78384167	17.71296667	2450	cpm	soil	0.25
310829.277	1959328.13	-64.783845	17.71298667	2360	cpm	soil	0.25
310828.582	1959329.43	-64.78385167	17.71299833	2230	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
310823.459	1959329.85	-64.7839	17.71300167	2150	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
310817.975	1959329.53	-64.78395167	17.71299833	2240	cpm	soil	0.25
310814.439	1959329.56	-64.783985	17.71299833	2320	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
310810.545	1959329.05	-64.78402167	17.71299333	2580	cpm	soil	0.25
0*	0*	0*	0*	2680	cpm	soil	0.25
0*	0*	0*	0*	2880	cpm	soil	0.25
310805.594	1959329.09	-64.78406833	17.71299333	3010	cpm	soil	0.25
310806.492	1959330.56	-64.78406	17.71300667	2700	cpm	soil	0.25
310808.274	1959332.02	-64.78404333	17.71302	2530	cpm	soil	0.25
310810.406	1959333.11	-64.78402333	17.71303	2660	cpm	soil	0.25
310811.294	1959333.47	-64.784015	17.71303333	2800	cpm	soil	0.25
310814.315	1959335.1	-64.78398667	17.71304833	2680	cpm	soil	0.25
310815.913	1959335.82	-64.78397167	17.713055	2590	cpm	soil	0.25
310816.804	1959336.55	-64.78396333	17.71306167	2590	cpm	soil	0.25
0*	0*	0*	0*	2450	cpm	soil	0.25
310820.002	1959338.18	-64.78393333	17.71307667	2330	cpm	soil	0.25
310820.709	1959338.17	-64.78392667	17.71307667	2310	cpm	soil	0.25
310823.193	1959339.07	-64.78390333	17.713085	2090	cpm	soil	0.25
310824.259	1959339.62	-64.78389333	17.71309	2230	cpm	soil	0.25
310826.921	1959340.7	-64.78386833	17.7131	2430	cpm	soil	0.25
310828.878	1959341.97	-64.78385	17.71311167	2450	cpm	soil	0.25
310831.007	1959342.69	-64.78383	17.71311833	2480	cpm	soil	0.25
310833.128	1959342.67	-64.78381	17.71311833	2320	cpm	soil	0.25
310834.185	1959342.29	-64.7838	17.713115	2340	cpm	soil	0.25
310836.123	1959341.53	-64.78378167	17.71310833	2190	cpm	soil	0.25
310838.234	1959340.41	-64.78376167	17.71309833	2060	cpm	soil	0.25
310840.17	1959339.47	-64.78374333	17.71309	2020	cpm	soil	0.25
310842.278	1959337.97	-64.78372333	17.71307667	2100	cpm	soil	0.25
310844.39	1959337.03	-64.78370333	17.71306833	2020	cpm	soil	0.25
310847.567	1959336.44	-64.78367333	17.71306333	1930	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
310851.462	1959336.96	-64.78363667	17.71306833	1950	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310852.351	1959337.51	-64.78362833	17.71307333	1970	cpm	soil	0.25
310855.544	1959338.58	-64.78359833	17.71308333	2000	cpm	soil	0.25
310856.255	1959338.94	-64.78359167	17.71308667	1910	cpm	soil	0.25
310857.14	1959339.12	-64.78358333	17.71308833	1860	cpm	soil	0.25
310860.149	1959339.46	-64.783555	17.71309167	1860	cpm	soil	0.25
310861.567	1959339.82	-64.78354167	17.713095	1970	cpm	soil	0.25
310865.649	1959341.44	-64.78350333	17.71311	1960	cpm	soil	0.25
310869.731	1959343.06	-64.783465	17.713125	1980	cpm	soil	0.25
310870.974	1959343.6	-64.78345333	17.71313	2000	cpm	soil	0.25
310874.177	1959345.78	-64.78342333	17.71315	1980	cpm	soil	0.25
310875.596	1959346.32	-64.78341	17.713155	1950	cpm	soil	0.25
310879.5	1959347.76	-64.78337333	17.71316833	1980	cpm	soil	0.25
310881.807	1959348.66	-64.78335167	17.71317667	2020	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
310882.185	1959351.24	-64.78334833	17.7132	2030	cpm	soil	0.25
310880.088	1959353.85	-64.78336833	17.71322333	2090	cpm	soil	0.25
310879.041	1959355.33	-64.78337833	17.71323667	2030	cpm	soil	0.25
310877.814	1959356.45	-64.78339	17.71324667	2050	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
310874.471	1959358.14	-64.78342167	17.71326167	2000	cpm	soil	0.25
310872.354	1959358.72	-64.78344167	17.71326667	2000	cpm	soil	0.25
310870.767	1959359.1	-64.78345667	17.71327	2030	cpm	soil	0.25
310870.767	1959359.1	-64.78345667	17.71327	1890	cpm	soil	0.25
310870.06	1959359.11	-64.78346333	17.71327	1960	cpm	soil	0.25
310867.942	1959359.49	-64.78348333	17.71327333	1930	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
310863.17	1959359.72	-64.78352833	17.713275	1850	cpm	soil	0.25
310861.933	1959359.74	-64.78354	17.713275	1870	cpm	soil	0.25
310858.763	1959361.06	-64.78357	17.71328667	1990	cpm	soil	0.25
310856.112	1959361.27	-64.783595	17.71328833	2080	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
310851.518	1959361.5	-64.78363833	17.71329	1980	cpm	soil	0.25
310849.394	1959361.33	-64.78365833	17.71328833	1990	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	2030	cpm	soil	0.25
310843.713	1959358.8	-64.78371167	17.713265	1930	cpm	soil	0.25
310841.759	1959357.9	-64.78373	17.71325667	1980	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310837.143	1959355.91	-64.78377333	17.71323833	1890	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310832.528	1959353.93	-64.78381667	17.71322	1850	cpm	soil	0.25
310830.397	1959353.03	-64.78383667	17.71321167	1790	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310826.305	1959350.3	-64.783875	17.71318667	1790	cpm	soil	0.25
310824.52	1959348.47	-64.78389167	17.71317	1850	cpm	soil	0.25
310822.381	1959346.64	-64.78391167	17.71315333	1960	cpm	soil	0.25
310820.418	1959344.82	-64.78393	17.71313667	2070	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310818.279	1959342.99	-64.78395	17.71312	2090	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
310814.896	1959340.44	-64.78398167	17.71309667	2290	cpm	soil	0.25
310812.403	1959338.62	-64.784005	17.71308	2350	cpm	soil	0.25
310809.916	1959337.35	-64.78402833	17.71306833	2210	cpm	soil	0.25
310807.973	1959337.56	-64.78404667	17.71307	2270	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
310808.71	1959340.69	-64.78404	17.71309833	2300	cpm	soil	0.25
310811.574	1959344.35	-64.78401333	17.71313167	2230	cpm	soil	0.25
310813.711	1959345.99	-64.78399333	17.71314667	2150	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
310818.685	1959348.52	-64.78394667	17.71317	2230	cpm	soil	0.25
310820.999	1959350.16	-64.783925	17.713185	2030	cpm	soil	0.25
310822.962	1959351.99	-64.78390667	17.71320167	2140	cpm	soil	0.25
310825.274	1959353.44	-64.783885	17.713215	1980	cpm	soil	0.25
310826.342	1959354.17	-64.783875	17.71322167	2070	cpm	soil	0.25
310830.254	1959356.53	-64.78383833	17.71324333	2230	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
310833.469	1959360.01	-64.78380833	17.713275	2080	cpm	soil	0.25
310835.251	1959361.47	-64.78379167	17.71328833	2070	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
310838.638	1959364.38	-64.78376	17.713315	2310	cpm	soil	0.25
310839.893	1959366.22	-64.78374833	17.71333167	2280	cpm	soil	0.25
310841.325	1959368.05	-64.783735	17.71334833	2290	cpm	soil	0.25
310842.933	1959369.88	-64.78372	17.713365	2220	cpm	soil	0.25
310843.824	1959370.61	-64.78371167	17.71337167	2300	cpm	soil	0.25
310846.669	1959372.24	-64.783685	17.71338667	2080	cpm	soil	0.25
310848.969	1959372.4	-64.78366333	17.71338833	1910	cpm	soil	0.25
310850.915	1959372.57	-64.783645	17.71339	1930	cpm	soil	0.25
310853.046	1959373.47	-64.783625	17.71339833	1780	cpm	soil	0.25
310853.933	1959373.83	-64.78361667	17.71340167	1820	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1950	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1790	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1780	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1690	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1620	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1630	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1650	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1610	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1640	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1640	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1660	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1620	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1650	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310854.645	1959374.38	-64.78361	17.71340667	1590	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1590	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1490	cpm	soil	0.25
310854.645	1959374.38	-64.78361	17.71340667	1560	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1470	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1430	cpm	soil	0.25
0*	0*	0*	0*	1440	cpm	soil	0.25
0*	0*	0*	0*	1430	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1520	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1560	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1540	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1520	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1590	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1620	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310854.647	1959374.56	-64.78361	17.71340833	1530	cpm	soil	0.25
310856.594	1959374.73	-64.78359167	17.71341	1510	cpm	soil	0.25
310859.076	1959375.44	-64.78356833	17.71341667	1640	cpm	soil	0.25
310861.208	1959376.53	-64.78354833	17.71342667	1590	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310865.107	1959377.6	-64.78351167	17.71343667	1620	cpm	soil	0.25
310865.274	1959376.49	-64.78351	17.71342667	1710	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
310863.979	1959370.42	-64.78352167	17.71337167	1840	cpm	soil	0.25
310863.788	1959368.94	-64.78352333	17.71335833	1990	cpm	soil	0.25
310864.46	1959365.25	-64.78351667	17.713325	1920	cpm	soil	0.25
310866.566	1959363.57	-64.78349667	17.71331	2030	cpm	soil	0.25
310868.859	1959362.99	-64.783475	17.713305	2030	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
310873.972	1959361.47	-64.78342667	17.71329167	1800	cpm	soil	0.25
310876.618	1959360.89	-64.78340167	17.71328667	1930	cpm	soil	0.25
310879.088	1959360.31	-64.78337833	17.71328167	2070	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
310884.024	1959358.79	-64.78333167	17.71326833	1990	cpm	soil	0.25
310886.328	1959359.32	-64.78331	17.71327333	1970	cpm	soil	0.25
310887.228	1959360.97	-64.78330167	17.71328833	1950	cpm	soil	0.25
310887.411	1959361.71	-64.7833	17.713295	1990	cpm	soil	0.25
310887.411	1959361.71	-64.7833	17.713295	2100	cpm	soil	0.25
310887.595	1959362.44	-64.78329833	17.71330167	1960	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
310889.757	1959366.67	-64.78327833	17.71334	2050	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
310891.355	1959367.39	-64.78326333	17.71334667	1850	cpm	soil	0.25
310891.539	1959368.13	-64.78326167	17.71335333	1760	cpm	soil	0.25
310890.683	1959371.09	-64.78327	17.71338	1740	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310889.109	1959372.95	-64.783285	17.71339667	1800	cpm	soil	0.25
310886.119	1959374.63	-64.78331333	17.71341167	1910	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	2380	cpm	soil	0.25
310877.306	1959377.49	-64.78339667	17.71343667	2580	cpm	soil	0.25
310876.07	1959377.68	-64.78340833	17.71343833	2360	cpm	soil	0.25
310872.715	1959378.08	-64.78344	17.71344167	2180	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
310867.952	1959379.23	-64.783485	17.71345167	2230	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
310862.491	1959381.32	-64.78353667	17.71347	2060	cpm	soil	0.25
310860.73	1959382.07	-64.78355333	17.71347667	1900	cpm	soil	0.25
310859.671	1959382.26	-64.78356333	17.71347833	1860	cpm	soil	0.25
310857.026	1959383.03	-64.78358833	17.713485	1800	cpm	soil	0.25
310855.268	1959384.15	-64.783605	17.713495	1930	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
310852.111	1959386.76	-64.783635	17.71351833	1850	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
0*	0*	0*	0*	1880	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310853.078	1959395.61	-64.78362667	17.71359833	1640	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
310855.758	1959398.54	-64.78360167	17.713625	1630	cpm	soil	0.25
310857.01	1959400	-64.78359	17.71363833	1590	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310858.986	1959403.3	-64.78357167	17.71366833	1590	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
310860.959	1959406.23	-64.78355333	17.713695	1340	cpm	soil	0.25
310861.855	1959407.52	-64.783545	17.71370667	1370	cpm	soil	0.25
0*	0*	0*	0*	1370	cpm	soil	0.25
310863.808	1959408.42	-64.78352667	17.713715	1360	cpm	soil	0.25
310865.051	1959408.96	-64.783515	17.71372	1380	cpm	soil	0.25
310865.935	1959408.95	-64.78350667	17.71372	1420	cpm	soil	0.25
310868.771	1959409.67	-64.78348	17.71372667	1520	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310870.736	1959411.86	-64.78346167	17.71374667	1760	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310872.361	1959415.35	-64.78344667	17.71377833	1870	cpm	soil	0.25
310871.491	1959416.83	-64.783455	17.71379167	1910	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310868.676	1959418.34	-64.78348167	17.713805	1750	cpm	soil	0.25
310866.915	1959419.09	-64.78349833	17.71381167	1700	cpm	soil	0.25
310865.156	1959420.03	-64.783515	17.71382	1790	cpm	soil	0.25
310863.397	1959420.97	-64.78353167	17.71382833	1700	cpm	soil	0.25
0*	0*	0*	0*	1800	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310859.887	1959423.77	-64.783565	17.71385333	1760	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310855.669	1959426.39	-64.783605	17.71387667	1710	cpm	soil	0.25
310853.559	1959427.7	-64.783625	17.71388833	1570	cpm	soil	0.25
0*	0*	0*	0*	1560	cpm	soil	0.25
310849.346	1959430.88	-64.783665	17.71391667	1470	cpm	soil	0.25
310847.772	1959432.74	-64.78368	17.71393333	1600	cpm	soil	0.25
310846.896	1959433.49	-64.78368833	17.71394	1620	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310842.5	1959436.11	-64.78373	17.71396333	1660	cpm	soil	0.25
310840.041	1959437.79	-64.78375333	17.71397833	1750	cpm	soil	0.25
310837.583	1959439.66	-64.78377667	17.713995	1660	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310832.318	1959443.77	-64.78382667	17.71403167	1970	cpm	soil	0.25
310831.441	1959444.52	-64.783835	17.71403833	1960	cpm	soil	0.25
310828.455	1959446.57	-64.78386333	17.71405667	2070	cpm	soil	0.25
310826.346	1959447.89	-64.78388333	17.71406833	2030	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
310822.141	1959451.98	-64.78392333	17.714105	2130	cpm	soil	0.25
0*	0*	0*	0*	2180	cpm	soil	0.25
310817.755	1959455.53	-64.783965	17.71413667	2130	cpm	soil	0.25
310816.526	1959456.46	-64.78397667	17.714145	2150	cpm	soil	0.25
310813.547	1959459.26	-64.784005	17.71417	2150	cpm	soil	0.25
310811.443	1959461.12	-64.784025	17.71418667	2070	cpm	soil	0.25
310809.157	1959462.44	-64.78404667	17.71419833	2060	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
310805.605	1959460.81	-64.78408	17.71418333	1730	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310804.326	1959456.4	-64.78409167	17.71414333	1710	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310806.403	1959451.76	-64.78407167	17.71410167	1820	cpm	soil	0.25
310807.8	1959449.91	-64.78405833	17.714085	1820	cpm	soil	0.25
310809.374	1959448.05	-64.78404333	17.71406833	1750	cpm	soil	0.25
310810.59	1959445.82	-64.78403167	17.71404833	1740	cpm	soil	0.25
310811.984	1959443.59	-64.78401833	17.71402833	1700	cpm	soil	0.25
310813.557	1959441.73	-64.78400333	17.71401167	1800	cpm	soil	0.25
310814.781	1959440.25	-64.78399167	17.71399833	1860	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
310815.833	1959439.31	-64.78398167	17.71399	1710	cpm	soil	0.25
310815.833	1959439.31	-64.78398167	17.71399	1640	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
310815.833	1959439.31	-64.78398167	17.71399	1540	cpm	soil	0.25
310815.833	1959439.31	-64.78398167	17.71399	1550	cpm	soil	0.25
310816.533	1959438.57	-64.783975	17.71398333	1550	cpm	soil	0.25
310818.283	1959436.71	-64.78395833	17.71396667	1530	cpm	soil	0.25
310820.391	1959435.21	-64.78393833	17.71395333	1660	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310823.906	1959432.97	-64.783905	17.71393333	1640	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310827.065	1959430.54	-64.783875	17.71391167	1720	cpm	soil	0.25
310828.994	1959428.86	-64.78385667	17.71389667	1850	cpm	soil	0.25
310830.925	1959427.36	-64.78383833	17.71388333	1900	cpm	soil	0.25
310832.857	1959426.06	-64.78382	17.71387167	1960	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
310837.426	1959423.06	-64.78377667	17.713845	1860	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
310840.943	1959421	-64.78374333	17.71382667	1980	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25
310863.148	1959413.41	-64.78353333	17.71376	1470	cpm	soil	0.25
0*	0*	0*	0*	1440	cpm	soil	0.25
310864.766	1959416.16	-64.78351833	17.713785	1510	cpm	soil	0.25
310865.851	1959418.73	-64.78350833	17.71380833	1640	cpm	soil	0.25
310865.868	1959420.58	-64.78350833	17.713825	1640	cpm	soil	0.25
310864.645	1959422.06	-64.78352	17.71383833	1620	cpm	soil	0.25
310863.768	1959422.81	-64.78352833	17.713845	1690	cpm	soil	0.25
310860.78	1959424.68	-64.78355667	17.71386167	1750	cpm	soil	0.25
0*	0*	0*	0*	1630	cpm	soil	0.25
310857.804	1959427.85	-64.783585	17.71389	1640	cpm	soil	0.25
310857.104	1959428.59	-64.78359167	17.71389667	1660	cpm	soil	0.25
310855.527	1959430.08	-64.78360667	17.71391	1640	cpm	soil	0.25
310854.303	1959431.57	-64.78361833	17.71392333	1620	cpm	soil	0.25
0*	0*	0*	0*	1530	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
310849.925	1959436.04	-64.78366	17.71396333	1470	cpm	soil	0.25
310848.173	1959437.72	-64.78367667	17.71397833	1580	cpm	soil	0.25
310846.589	1959438.47	-64.78369167	17.713985	1620	cpm	soil	0.25
310845.541	1959439.77	-64.78370167	17.71399667	1680	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
310845.045	1959443.46	-64.78370667	17.71403	1940	cpm	soil	0.25
310878.653	1959463.62	-64.78339167	17.714215	1680	cpm	soil	0.25
310880.258	1959465.08	-64.78337667	17.71422833	1690	cpm	soil	0.25
310880.457	1959467.48	-64.783375	17.71425	1700	cpm	soil	0.25
310879.414	1959469.34	-64.783385	17.71426667	1730	cpm	soil	0.25
310878.192	1959471.01	-64.78339667	17.71428167	1680	cpm	soil	0.25
310876.615	1959472.5	-64.78341167	17.714295	1690	cpm	soil	0.25
310874.861	1959473.99	-64.78342833	17.71430833	1620	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310870.986	1959475.5	-64.783465	17.71432167	1680	cpm	soil	0.25
310869.93	1959476.07	-64.783475	17.71432667	1620	cpm	soil	0.25
310867.471	1959477.75	-64.78349833	17.71434167	1590	cpm	soil	0.25
310866.592	1959478.31	-64.78350667	17.71434667	1740	cpm	soil	0.25
310865.712	1959478.69	-64.783515	17.71435	1690	cpm	soil	0.25
310864.656	1959479.25	-64.783525	17.714355	1740	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310864.656	1959479.25	-64.783525	17.714355	1850	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
310864.656	1959479.25	-64.783525	17.714355	2000	cpm	soil	0.25
310864.656	1959479.25	-64.783525	17.714355	2050	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
310823.677	1959502.15	-64.78391333	17.71455833	1870	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310819.984	1959504.21	-64.78394833	17.71457667	1590	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
310819.658	1959507.17	-64.78395167	17.71460333	1520	cpm	soil	0.25
0*	0*	0*	0*	1540	cpm	soil	0.25
310824.082	1959507.49	-64.78391	17.71460667	1470	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310827.787	1959506.72	-64.783875	17.7146	1470	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310831.659	1959504.84	-64.78383833	17.71458333	1460	cpm	soil	0.25
310832.361	1959504.28	-64.78383167	17.71457833	1490	cpm	soil	0.25
310834.467	1959502.6	-64.78381167	17.71456333	1470	cpm	soil	0.25
310835.874	1959501.85	-64.78379833	17.71455667	1410	cpm	soil	0.25
310836.576	1959501.29	-64.78379167	17.71455167	1380	cpm	soil	0.25
310838.684	1959499.79	-64.78377167	17.71453833	1270	cpm	soil	0.25
310840.087	1959498.67	-64.78375833	17.71452833	1200	cpm	soil	0.25
0*	0*	0*	0*	1270	cpm	soil	0.25
310842.193	1959496.99	-64.78373833	17.71451333	1260	cpm	soil	0.25
310843.595	1959495.69	-64.783725	17.71450167	1220	cpm	soil	0.25
0*	0*	0*	0*	1290	cpm	soil	0.25
310847.112	1959493.62	-64.78369167	17.71448333	1310	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
310885.89	1959481.08	-64.783325	17.71437333	1760	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310889.433	1959481.78	-64.78329167	17.71438	1740	cpm	soil	0.25
310890.494	1959481.77	-64.78328167	17.71438	1730	cpm	soil	0.25
310893.681	1959482.3	-64.78325167	17.714385	1770	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
310898.285	1959482.99	-64.78320833	17.71439167	1770	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310902.361	1959484.06	-64.78317	17.71440167	1780	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
310906.441	1959485.5	-64.78313167	17.714415	1570	cpm	soil	0.25
0*	0*	0*	0*	1480	cpm	soil	0.25
0*	0*	0*	0*	1530	cpm	soil	0.25
0*	0*	0*	0*	1500	cpm	soil	0.25
310909.667	1959490.08	-64.78310167	17.71445667	1350	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310908.444	1959491.57	-64.78311333	17.71447	1440	cpm	soil	0.25
310907.033	1959491.95	-64.78312667	17.71447333	1470	cpm	soil	0.25
310906.153	1959492.33	-64.783135	17.71447667	1570	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310857.855	1959507.91	-64.78359167	17.71461333	1490	cpm	soil	0.25
0*	0*	0*	0*	1570	cpm	soil	0.25
310853.984	1959509.79	-64.78362833	17.71463	1530	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310849.406	1959511.86	-64.78367167	17.71464833	1660	cpm	soil	0.25
310847.299	1959513.36	-64.78369167	17.71466167	1630	cpm	soil	0.25
310846.602	1959514.47	-64.78369833	17.71467167	1630	cpm	soil	0.25
310846.635	1959517.98	-64.78369833	17.71470333	1650	cpm	soil	0.25
310847.36	1959519.82	-64.78369167	17.71472	1780	cpm	soil	0.25
310848.958	1959520.54	-64.78367667	17.71472667	1640	cpm	soil	0.25
310851.081	1959520.7	-64.78365667	17.71472833	1530	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310856.203	1959520.1	-64.78360833	17.71472333	1650	cpm	soil	0.25
310857.439	1959519.91	-64.78359667	17.71472167	1600	cpm	soil	0.25
310861.493	1959518.58	-64.78355833	17.71471	1550	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
310866.959	1959517.05	-64.78350667	17.71469667	1580	cpm	soil	0.25
310869.784	1959516.65	-64.78348	17.71469333	1690	cpm	soil	0.25
310872.256	1959516.26	-64.78345667	17.71469	1640	cpm	soil	0.25
310874.727	1959515.87	-64.78343333	17.71468667	1630	cpm	soil	0.25
0*	0*	0*	0*	1540	cpm	soil	0.25
310880.022	1959514.9	-64.78338333	17.71467833	1550	cpm	soil	0.25
0*	0*	0*	0*	1660	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1630	cpm	soil	0.25
310889.55	1959512.78	-64.78329333	17.71466	1630	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310893.604	1959511.45	-64.783255	17.71464833	1620	cpm	soil	0.25
0*	0*	0*	0*	1540	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310900.133	1959510.09	-64.78319333	17.71463667	1570	cpm	soil	0.25
310902.781	1959509.7	-64.78316833	17.71463333	1590	cpm	soil	0.25
0*	0*	0*	0*	1560	cpm	soil	0.25
310906.662	1959508.74	-64.78313167	17.714625	1560	cpm	soil	0.25
310907.367	1959508.55	-64.783125	17.71462333	1610	cpm	soil	0.25
310909.481	1959507.79	-64.783105	17.71461667	1600	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
310911.423	1959507.4	-64.78308667	17.71461333	1600	cpm	soil	0.25
310912.835	1959507.21	-64.78307333	17.71461167	1560	cpm	soil	0.25
310916.898	1959506.8	-64.783035	17.71460833	1550	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
310922.553	1959506.56	-64.78298167	17.71460667	1650	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
310925.566	1959507.27	-64.78295333	17.71461333	1550	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310928.414	1959509.27	-64.78292667	17.71463167	1710	cpm	soil	0.25
310956.364	1959529.48	-64.782665	17.71481667	2200	cpm	soil	0.25
310959.201	1959530.38	-64.78263833	17.714825	2250	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
310963.817	1959532.37	-64.782595	17.71484333	2380	cpm	soil	0.25
0*	0*	0*	0*	2500	cpm	soil	0.25
310967.906	1959534.72	-64.78255667	17.714865	2260	cpm	soil	0.25
310969.509	1959536	-64.78254167	17.71487667	2120	cpm	soil	0.25
310970.409	1959537.65	-64.78253333	17.71489167	2010	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
310971.142	1959540.41	-64.78252667	17.71491667	1990	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310971.17	1959543.36	-64.78252667	17.71494333	1780	cpm	soil	0.25
310971.354	1959544.1	-64.782525	17.71495	1710	cpm	soil	0.25
310971.564	1959547.6	-64.78252333	17.71498167	1700	cpm	soil	0.25
310971.397	1959548.71	-64.782525	17.71499167	1730	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310972.328	1959553.68	-64.78251667	17.71503667	1880	cpm	soil	0.25
310974.459	1959554.59	-64.78249667	17.715045	1830	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
310979.939	1959554.53	-64.782445	17.715045	1630	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
310985.061	1959553.93	-64.78239667	17.71504	1680	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
310845.32	1959416.53	-64.78370167	17.71378667	1800	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
310847.948	1959413.92	-64.78367667	17.71376333	1770	cpm	soil	0.25
310848.826	1959413.36	-64.78366833	17.71375833	1750	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310853.383	1959409.07	-64.783625	17.71372	1580	cpm	soil	0.25
310854.792	1959408.51	-64.78361167	17.713715	1610	cpm	soil	0.25
310855.842	1959407.39	-64.78360167	17.713705	1570	cpm	soil	0.25
310857.066	1959405.9	-64.78359	17.71369167	1520	cpm	soil	0.25
0*	0*	0*	0*	1420	cpm	soil	0.25
310859.354	1959404.77	-64.78356833	17.71368167	1350	cpm	soil	0.25
310859.884	1959404.77	-64.78356333	17.71368167	1340	cpm	soil	0.25
310860.062	1959404.95	-64.78356167	17.71368333	1400	cpm	soil	0.25
310859.536	1959405.33	-64.78356667	17.71368667	1440	cpm	soil	0.25
310859.536	1959405.33	-64.78356667	17.71368667	1340	cpm	soil	0.25
310859.536	1959405.33	-64.78356667	17.71368667	1360	cpm	soil	0.25
310859.898	1959406.24	-64.78356333	17.713695	1320	cpm	soil	0.25
310860.44	1959407.53	-64.78355833	17.71370667	1400	cpm	soil	0.25
310861.165	1959409.37	-64.78355167	17.71372333	1390	cpm	soil	0.25
310845.408	1959444.38	-64.78370333	17.71403833	2000	cpm	soil	0.25
310846.307	1959446.04	-64.783695	17.71405333	1970	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310846.668	1959446.77	-64.78369167	17.71406	1940	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310850.251	1959451.72	-64.78365833	17.714105	1950	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
310851.182	1959456.69	-64.78365	17.71415	2170	cpm	soil	0.25
310851.014	1959457.61	-64.78365167	17.71415833	2260	cpm	soil	0.25
310850.686	1959460.38	-64.783655	17.71418333	2130	cpm	soil	0.25
310851.945	1959462.59	-64.78364333	17.71420333	2270	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
310854.814	1959466.8	-64.78361667	17.71424167	2390	cpm	soil	0.25
310856.249	1959469	-64.78360333	17.71426167	2220	cpm	soil	0.25
310857.681	1959470.83	-64.78359	17.71427833	2220	cpm	soil	0.25
310860.156	1959470.81	-64.78356667	17.71427833	2050	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
310867.562	1959468.71	-64.78349667	17.71426	1830	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
310874.066	1959464.77	-64.783435	17.714225	1800	cpm	soil	0.25
310876.531	1959463.64	-64.78341167	17.714215	1730	cpm	soil	0.25
310861.488	1959480.76	-64.783555	17.71436833	2200	cpm	soil	0.25
310859.906	1959481.7	-64.78357	17.71437667	2030	cpm	soil	0.25
310858.146	1959482.63	-64.78358667	17.714385	1950	cpm	soil	0.25
310856.384	1959483.2	-64.78360333	17.71439	2030	cpm	soil	0.25
310853.741	1959484.15	-64.78362833	17.71439833	1950	cpm	soil	0.25
310851.98	1959484.91	-64.783645	17.714405	1980	cpm	soil	0.25
310850.221	1959485.85	-64.78366167	17.71441333	2050	cpm	soil	0.25
310848.283	1959486.6	-64.78368	17.71442	2010	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
310844.945	1959488.85	-64.78371167	17.71444	2000	cpm	soil	0.25
310844.245	1959489.59	-64.78371833	17.71444667	1860	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
310840.56	1959492.58	-64.78375333	17.71447333	1760	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
310837.397	1959494.64	-64.78378333	17.71449167	1760	cpm	soil	0.25
310836.518	1959495.2	-64.78379167	17.71449667	1620	cpm	soil	0.25
310834.059	1959496.88	-64.783815	17.71451167	1630	cpm	soil	0.25
310832.478	1959498.01	-64.78383	17.71452167	1730	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
310829.317	1959500.25	-64.78386	17.71454167	1780	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310825.438	1959501.39	-64.78389667	17.71455167	1800	cpm	soil	0.25
310849.048	1959492.68	-64.78367333	17.714475	1280	cpm	soil	0.25
310850.987	1959492.11	-64.783655	17.71447	1320	cpm	soil	0.25
0*	0*	0*	0*	1380	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25
310856.093	1959489.85	-64.78360667	17.71445	1450	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310858.561	1959489.09	-64.78358333	17.71444333	1490	cpm	soil	0.25
310860.147	1959488.52	-64.78356833	17.71443833	1680	cpm	soil	0.25
310860.851	1959488.14	-64.78356167	17.714435	1800	cpm	soil	0.25
310863.138	1959487.01	-64.78354	17.714425	1960	cpm	soil	0.25
310864.901	1959486.44	-64.78352333	17.71442	1880	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310868.426	1959485.3	-64.78349	17.71441	1690	cpm	soil	0.25
310870.191	1959484.92	-64.78347333	17.71440667	1720	cpm	soil	0.25
310871.602	1959484.54	-64.78346	17.71440333	1750	cpm	soil	0.25
310873.186	1959483.78	-64.783445	17.71439667	1760	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
310876.182	1959482.83	-64.78341667	17.71438833	1560	cpm	soil	0.25
310877.593	1959482.45	-64.78340333	17.714385	1550	cpm	soil	0.25
310878.297	1959482.07	-64.78339667	17.71438167	1580	cpm	soil	0.25
310880.767	1959481.5	-64.78337333	17.71437667	1680	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
310882.529	1959480.93	-64.78335667	17.71437167	1720	cpm	soil	0.25
310903.681	1959492.72	-64.78315833	17.71448	1610	cpm	soil	0.25
310901.034	1959493.3	-64.78318333	17.714485	1630	cpm	soil	0.25
310898.915	1959493.5	-64.78320333	17.71448667	1570	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
310894.852	1959493.91	-64.78324167	17.71449	1630	cpm	soil	0.25
310892.909	1959494.11	-64.78326	17.71449167	1680	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
310889.203	1959494.88	-64.783295	17.71449833	1650	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310885.323	1959495.84	-64.78333167	17.71450667	1680	cpm	soil	0.25
310883.385	1959496.6	-64.78335	17.71451333	1600	cpm	soil	0.25
310881.449	1959497.54	-64.78336833	17.71452167	1620	cpm	soil	0.25
310878.276	1959498.49	-64.78339833	17.71453	1600	cpm	soil	0.25
310877.217	1959498.69	-64.78340833	17.71453167	1550	cpm	soil	0.25
310873.866	1959499.64	-64.78344	17.71454	1550	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
310869.282	1959500.98	-64.78348333	17.71455167	1400	cpm	soil	0.25
310866.993	1959501.92	-64.783505	17.71456	1440	cpm	soil	0.25
310865.939	1959502.67	-64.783515	17.71456667	1430	cpm	soil	0.25
310863.303	1959504.35	-64.78354	17.71458167	1490	cpm	soil	0.25
0*	0*	0*	0*	1410	cpm	soil	0.25
310859.613	1959506.79	-64.783575	17.71460333	1520	cpm	soil	0.25
310882.317	1959514.5	-64.78336167	17.714675	1530	cpm	soil	0.25
310882.847	1959514.5	-64.78335667	17.714675	1510	cpm	soil	0.25
0*	0*	0*	0*	1570	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310883.905	1959514.12	-64.78334667	17.71467167	1570	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
310885.844	1959513.55	-64.78332833	17.71466667	1540	cpm	soil	0.25
310886.198	1959513.55	-64.783325	17.71466667	1510	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310886.198	1959513.55	-64.783325	17.71466667	1560	cpm	soil	0.25
310886.198	1959513.55	-64.783325	17.71466667	1570	cpm	soil	0.25
310886.198	1959513.55	-64.783325	17.71466667	1560	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1580	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1590	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1550	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1610	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1600	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1660	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1690	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1740	cpm	soil	0.25
310887.078	1959513.17	-64.78331667	17.71466333	1740	cpm	soil	0.25
310929.313	1959510.92	-64.78291833	17.71464667	1630	cpm	soil	0.25
310929.674	1959511.66	-64.782915	17.71465333	1700	cpm	soil	0.25
310929.859	1959512.58	-64.78291333	17.71466167	1650	cpm	soil	0.25
310930.241	1959515.53	-64.78291	17.71468833	1790	cpm	soil	0.25
310931.141	1959517.18	-64.78290167	17.71470333	1950	cpm	soil	0.25
310932.394	1959518.83	-64.78289	17.71471833	1870	cpm	soil	0.25
310933.47	1959520.48	-64.78288	17.71473333	2020	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
310936.507	1959523.77	-64.78285167	17.71476333	1870	cpm	soil	0.25
310938.291	1959525.41	-64.782835	17.71477833	1750	cpm	soil	0.25
310941.133	1959526.86	-64.78280833	17.71479167	1700	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
310946.794	1959527.18	-64.782755	17.714795	1860	cpm	soil	0.25
310949.264	1959526.6	-64.78273167	17.71479	1860	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
310949.983	1959527.88	-64.782725	17.71480167	2010	cpm	soil	0.25
310949.814	1959528.62	-64.78272667	17.71480833	2010	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310951.951	1959530.26	-64.78270667	17.71482333	2030	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
310955.478	1959529.31	-64.78267333	17.714815	2040	cpm	soil	0.25
310987.714	1959554.09	-64.78237167	17.71504167	1780	cpm	soil	0.25
310990.37	1959554.44	-64.78234667	17.715045	1810	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
310993.909	1959554.77	-64.78231333	17.71504833	1960	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
311001.871	1959555.43	-64.78223833	17.715055	1920	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311006.818	1959555.02	-64.78219167	17.71505167	1930	cpm	soil	0.25
311009.116	1959555	-64.78217	17.71505167	2020	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311013.893	1959555.32	-64.782125	17.715055	1920	cpm	soil	0.25
311016.193	1959555.48	-64.78210333	17.71505667	1940	cpm	soil	0.25
0*	0*	0*	0*	1880	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311014.824	1959560.29	-64.78211667	17.7151	1930	cpm	soil	0.25
311011.299	1959561.43	-64.78215	17.71511	1820	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311005.652	1959562.59	-64.78220333	17.71512	1650	cpm	soil	0.25
311002.825	1959562.8	-64.78223	17.71512167	1540	cpm	soil	0.25
0*	0*	0*	0*	1570	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
310978.163	1959591.08	-64.782465	17.715375	2280	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
310978.902	1959594.39	-64.78245833	17.715405	2160	cpm	soil	0.25
310979.089	1959595.5	-64.78245667	17.715415	2100	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2040	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2100	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2270	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2200	cpm	soil	0.25
310979.093	1959595.87	-64.78245667	17.71541833	2220	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
310980.694	1959596.96	-64.78244167	17.71542833	2410	cpm	soil	0.25
0*	0*	0*	0*	2560	cpm	soil	0.25
310982.291	1959597.5	-64.78242667	17.71543333	2460	cpm	soil	0.25
310982.473	1959598.05	-64.782425	17.71543833	2400	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
310980.904	1959600.46	-64.78244	17.71546	2070	cpm	soil	0.25
310980.206	1959601.39	-64.78244667	17.71546833	2120	cpm	soil	0.25
310980.031	1959601.58	-64.78244833	17.71547	2150	cpm	soil	0.25
0*	0*	0*	0*	2180	cpm	soil	0.25
310995.225	1959563.06	-64.78230167	17.71512333	1710	cpm	soil	0.25
310990.089	1959562.19	-64.78235	17.715115	1630	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
310984.95	1959560.94	-64.78239833	17.71510333	1660	cpm	soil	0.25
310982.649	1959560.6	-64.78242	17.7151	1690	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
310975.761	1959561.4	-64.782485	17.71510667	1770	cpm	soil	0.25
310974.88	1959561.78	-64.78249333	17.71511	1950	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
310972.789	1959564.93	-64.78251333	17.71513833	1930	cpm	soil	0.25
310972.452	1959566.78	-64.78251667	17.715155	1980	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
310971.605	1959570.66	-64.782525	17.71519	2110	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310971.796	1959572.14	-64.78252333	17.71520333	2090	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
310971.67	1959577.49	-64.782525	17.71525167	2060	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
310973.131	1959582.45	-64.78251167	17.71529667	2080	cpm	soil	0.25
310974.918	1959584.47	-64.782495	17.715315	2150	cpm	soil	0.25
310976.177	1959586.67	-64.78248333	17.715335	2390	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	2120	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	1950	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	1900	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	2090	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	2170	cpm	soil	0.25
310979.679	1959601.76	-64.78245167	17.71547167	2160	cpm	soil	0.25
310978.268	1959602.15	-64.782465	17.715475	2100	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
310967.862	1959604.83	-64.78256333	17.71549833	2200	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
310961.86	1959605.81	-64.78262	17.71550667	2260	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
310950.038	1959608.32	-64.78273167	17.71552833	2100	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310944.216	1959609.66	-64.78278667	17.71554	2130	cpm	soil	0.25
310942.805	1959610.04	-64.7828	17.71554333	2190	cpm	soil	0.25
310877.588	1959631.14	-64.78341667	17.71572833	2210	cpm	soil	0.25
310873.717	1959633.21	-64.78345333	17.71574667	2150	cpm	soil	0.25
310871.255	1959634.52	-64.78347667	17.71575833	2200	cpm	soil	0.25
310868.79	1959635.65	-64.7835	17.71576833	2230	cpm	soil	0.25
310866.502	1959636.78	-64.78352167	17.71577833	2150	cpm	soil	0.25
310862.629	1959638.48	-64.78355833	17.71579333	2190	cpm	soil	0.25
310860.168	1959639.98	-64.78358167	17.71580667	2090	cpm	soil	0.25
310858.599	1959642.39	-64.78359667	17.71582833	2220	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310857.764	1959647.56	-64.783605	17.715875	1960	cpm	soil	0.25
310855.657	1959649.06	-64.783625	17.71588833	1820	cpm	soil	0.25
310852.832	1959649.45	-64.78365167	17.71589167	1940	cpm	soil	0.25
310849.655	1959650.04	-64.78368167	17.71589667	1870	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310843.299	1959651.02	-64.78374167	17.715905	1670	cpm	soil	0.25
310840.658	1959652.15	-64.78376667	17.715915	1490	cpm	soil	0.25
0*	0*	0*	0*	1370	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310840.519	1959656.21	-64.78376833	17.71595167	1400	cpm	soil	0.25
0*	0*	0*	0*	1360	cpm	soil	0.25
0*	0*	0*	0*	1270	cpm	soil	0.25
310849	1959655.58	-64.78368833	17.71594667	1230	cpm	soil	0.25
310851.641	1959654.45	-64.78366333	17.71593667	1340	cpm	soil	0.25
310849.994	1959667.19	-64.78368	17.71605167	1230	cpm	soil	0.25
0*	0*	0*	0*	1330	cpm	soil	0.25
310856.526	1959666.21	-64.78361833	17.71604333	1390	cpm	soil	0.25
310859.71	1959666.36	-64.78358833	17.716045	1420	cpm	soil	0.25
0*	0*	0*	0*	1390	cpm	soil	0.25
310865.539	1959665.75	-64.78353333	17.71604	1400	cpm	soil	0.25
310868.363	1959665.17	-64.78350667	17.716035	1400	cpm	soil	0.25
310870.645	1959663.49	-64.783485	17.71602	1420	cpm	soil	0.25
310870.972	1959660.72	-64.78348167	17.715995	1360	cpm	soil	0.25
0*	0*	0*	0*	1340	cpm	soil	0.25
310870.39	1959655.19	-64.78348667	17.715945	1300	cpm	soil	0.25
0*	0*	0*	0*	1280	cpm	soil	0.25
310868.398	1959650.23	-64.783505	17.7159	1350	cpm	soil	0.25
310866.257	1959648.22	-64.783525	17.71588167	1270	cpm	soil	0.25
0*	0*	0*	0*	1310	cpm	soil	0.25
310860.927	1959645.5	-64.783575	17.71585667	1320	cpm	soil	0.25
310859.506	1959644.78	-64.78358833	17.71585	1390	cpm	soil	0.25
310855.776	1959642.97	-64.78362333	17.71583333	1690	cpm	soil	0.25
310852.774	1959643.37	-64.78365167	17.71583667	1960	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
310848.011	1959644.52	-64.78369667	17.71584667	2070	cpm	soil	0.25
310845.016	1959645.65	-64.783725	17.71585667	1930	cpm	soil	0.25
310797.453	1959645.37	-64.78417333	17.71585	1500	cpm	soil	0.25
310795.146	1959644.47	-64.784195	17.71584167	1500	cpm	soil	0.25
310793.193	1959643.56	-64.78421333	17.71583333	1370	cpm	soil	0.25
0*	0*	0*	0*	1330	cpm	soil	0.25
310789.643	1959642.12	-64.78424667	17.71582	1320	cpm	soil	0.25
310785.388	1959640.87	-64.78428667	17.71580833	1370	cpm	soil	0.25
310783.97	1959640.51	-64.7843	17.715805	1300	cpm	soil	0.25
310780.952	1959639.25	-64.78432833	17.71579333	1270	cpm	soil	0.25
0*	0*	0*	0*	1270	cpm	soil	0.25
0*	0*	0*	0*	1240	cpm	soil	0.25
310779.71	1959638.71	-64.78434	17.71578833	1320	cpm	soil	0.25
310775.453	1959637.27	-64.78438	17.715775	1420	cpm	soil	0.25
0*	0*	0*	0*	1360	cpm	soil	0.25
310769.953	1959635.3	-64.78443167	17.71575667	1380	cpm	soil	0.25
310768.535	1959634.94	-64.784445	17.71575333	1490	cpm	soil	0.25
310764.28	1959633.69	-64.784485	17.71574167	1570	cpm	soil	0.25
310760.196	1959631.88	-64.78452333	17.715725	1570	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310756.489	1959632.47	-64.78455833	17.71573	1670	cpm	soil	0.25
310756.158	1959634.87	-64.78456167	17.71575167	1770	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310759.887	1959636.5	-64.78452667	17.71576667	1780	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310823.35	1959654.16	-64.78393	17.71593167	1880	cpm	soil	0.25
310828.123	1959654.11	-64.783885	17.71593167	1900	cpm	soil	0.25
310830.782	1959654.83	-64.78386	17.71593833	1810	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
310832.053	1959658.32	-64.78384833	17.71597	1660	cpm	soil	0.25
310829.942	1959659.45	-64.78386833	17.71598	1640	cpm	soil	0.25
310825.879	1959659.85	-64.78390667	17.71598333	1550	cpm	soil	0.25
310823.051	1959659.88	-64.78393333	17.71598333	1660	cpm	soil	0.25
310820.397	1959659.72	-64.78395833	17.71598167	1630	cpm	soil	0.25
310817.92	1959659.56	-64.78398167	17.71598	1650	cpm	soil	0.25
310815.438	1959658.85	-64.784005	17.71597333	1730	cpm	soil	0.25
310812.781	1959658.32	-64.78403	17.71596833	1760	cpm	soil	0.25
310810.301	1959657.79	-64.78405333	17.71596333	1760	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
310804.98	1959655.99	-64.78410333	17.71594667	1680	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
310800.189	1959654.2	-64.78414833	17.71593	1680	cpm	soil	0.25
310797.88	1959653.11	-64.78417	17.71592	1940	cpm	soil	0.25
310795.571	1959652.03	-64.78419167	17.71591	1910	cpm	soil	0.25
310792.734	1959651.13	-64.78421833	17.71590167	1870	cpm	soil	0.25
310791.491	1959650.59	-64.78423	17.71589667	1730	cpm	soil	0.25
310787.409	1959648.97	-64.78426833	17.71588167	1700	cpm	soil	0.25
310761.965	1959613.23	-64.784505	17.71555667	2490	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
310762.287	1959609.91	-64.78450167	17.71552667	2370	cpm	soil	0.25
310762.791	1959607.14	-64.78449667	17.71550167	2380	cpm	soil	0.25
310763.479	1959605.1	-64.78449	17.71548333	2380	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310767.72	1959604.88	-64.78445	17.71548167	2180	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
310770.184	1959603.75	-64.78442667	17.71547167	1990	cpm	soil	0.25
310770.359	1959603.56	-64.784425	17.71547	1940	cpm	soil	0.25
310770.878	1959602.27	-64.78442	17.71545833	1980	cpm	soil	0.25
310770.878	1959602.27	-64.78442	17.71545833	1920	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
310773.129	1959597.26	-64.78439833	17.71541333	1930	cpm	soil	0.25
310773.643	1959595.6	-64.78439333	17.71539833	2140	cpm	soil	0.25
310774.841	1959591.34	-64.78438167	17.71536	2140	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
310778.35	1959588.54	-64.78434833	17.715335	1900	cpm	soil	0.25
310780.823	1959588.34	-64.784325	17.71533333	1870	cpm	soil	0.25
310783.122	1959588.31	-64.78430333	17.71533333	1870	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2230	cpm	soil	0.25
310839.223	1959594.05	-64.783775	17.71539	2200	cpm	soil	0.25
310836.039	1959593.9	-64.783805	17.71538833	1980	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
310829.673	1959593.78	-64.783865	17.71538667	2030	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	1880	cpm	soil	0.25
310825.831	1959598.79	-64.78390167	17.71543167	1730	cpm	soil	0.25
310825.871	1959603.04	-64.78390167	17.71547	1610	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
310823.807	1959609.14	-64.78392167	17.715525	1610	cpm	soil	0.25
310822.395	1959609.34	-64.783935	17.71552667	1640	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
0*	0*	0*	0*	1630	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
310810.667	1959603.18	-64.784045	17.71547	1670	cpm	soil	0.25
310810.3	1959601.71	-64.78404833	17.71545667	1650	cpm	soil	0.25
310811.499	1959597.64	-64.78403667	17.71542	1730	cpm	soil	0.25
310812.019	1959596.53	-64.78403167	17.71541	1620	cpm	soil	0.25
0*	0*	0*	0*	1680	cpm	soil	0.25
310811.074	1959590.08	-64.78404	17.71535167	1700	cpm	soil	0.25
310938.576	1959611.56	-64.78284	17.71555667	2150	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
310932.76	1959613.46	-64.782895	17.71557333	2010	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
310924.302	1959616.49	-64.782975	17.7156	2120	cpm	soil	0.25
310922.711	1959616.51	-64.78299	17.7156	2230	cpm	soil	0.25
310918.125	1959617.66	-64.78303333	17.71561	2250	cpm	soil	0.25
310915.307	1959618.79	-64.78306	17.71562	2230	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
310909.679	1959621.98	-64.78311333	17.71564833	2360	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
310903.511	1959624.07	-64.78317167	17.71566667	2280	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
310897.868	1959625.6	-64.783225	17.71568	2240	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
310891.694	1959627.13	-64.78328333	17.71569333	2250	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
310885.872	1959628.48	-64.78333833	17.715705	2220	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
310878.997	1959630.57	-64.78340333	17.71572333	2120	cpm	soil	0.25
310854.459	1959653.31	-64.78363667	17.71592667	1410	cpm	soil	0.25
310857.279	1959652.36	-64.78361	17.71591833	1530	cpm	soil	0.25
310860.103	1959651.78	-64.78358333	17.71591333	1530	cpm	soil	0.25
0*	0*	0*	0*	1400	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310866.1	1959650.25	-64.78352667	17.7159	1480	cpm	soil	0.25
310867.88	1959651.52	-64.78351	17.71591167	1450	cpm	soil	0.25
310868.081	1959654.11	-64.78350833	17.715935	1490	cpm	soil	0.25
310866.154	1959655.97	-64.78352667	17.71595167	1460	cpm	soil	0.25
0*	0*	0*	0*	1390	cpm	soil	0.25
310860.341	1959658.24	-64.78358167	17.71597167	1430	cpm	soil	0.25
310857.164	1959658.82	-64.78361167	17.71597667	1430	cpm	soil	0.25
310854.34	1959659.4	-64.78363833	17.71598167	1510	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310851.337	1959659.61	-64.78366667	17.71598333	1690	cpm	soil	0.25
310846.57	1959660.4	-64.78371167	17.71599	1620	cpm	soil	0.25
310843.563	1959660.24	-64.78374	17.71598833	1510	cpm	soil	0.25
310840.561	1959660.64	-64.78376833	17.71599167	1330	cpm	soil	0.25
310838.989	1959662.68	-64.78378333	17.71601	1300	cpm	soil	0.25
310839.721	1959665.26	-64.78377667	17.71603333	1320	cpm	soil	0.25
310841.682	1959666.9	-64.78375833	17.71604833	1170	cpm	soil	0.25
310845.928	1959667.23	-64.78371833	17.71605167	1160	cpm	soil	0.25
0*	0*	0*	0*	1210	cpm	soil	0.25
310841.841	1959646.42	-64.783755	17.71586333	1950	cpm	soil	0.25
310838.664	1959647	-64.783785	17.71586833	1900	cpm	soil	0.25
310835.487	1959647.59	-64.783815	17.71587333	1940	cpm	soil	0.25
310833.014	1959647.8	-64.78383833	17.715875	2020	cpm	soil	0.25
310832.139	1959648.73	-64.78384667	17.71588333	2030	cpm	soil	0.25
310831.622	1959650.21	-64.78385167	17.71589667	1850	cpm	soil	0.25
310829.51	1959651.15	-64.78387167	17.715905	1780	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
310826.504	1959651.18	-64.7839	17.715905	1660	cpm	soil	0.25
310823.32	1959651.02	-64.78393	17.71590333	1660	cpm	soil	0.25
310821.374	1959650.86	-64.78394833	17.71590167	1560	cpm	soil	0.25
310819.427	1959650.69	-64.78396667	17.7159	1670	cpm	soil	0.25
310817.477	1959650.16	-64.783985	17.715895	1690	cpm	soil	0.25
310816.413	1959649.8	-64.783995	17.71589167	1680	cpm	soil	0.25
310813.404	1959649.46	-64.78402333	17.71588833	1720	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310810.394	1959648.93	-64.78405167	17.71588333	1540	cpm	soil	0.25
310807.731	1959647.85	-64.78407667	17.71587333	1470	cpm	soil	0.25
310805.605	1959647.32	-64.78409667	17.71586833	1600	cpm	soil	0.25
310803.303	1959646.97	-64.78411833	17.715865	1570	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
310800.467	1959646.26	-64.784145	17.71585833	1510	cpm	soil	0.25
310765.208	1959638.29	-64.78447667	17.71578333	1760	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	1760	cpm	soil	0.25
310773.541	1959640.8	-64.78439833	17.71580667	1770	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
310779.044	1959643.14	-64.78434667	17.71582833	1500	cpm	soil	0.25
310782.06	1959644.22	-64.78431833	17.71583833	1420	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	1360	cpm	soil	0.25
310787.558	1959646.01	-64.78426667	17.715855	1280	cpm	soil	0.25
0*	0*	0*	0*	1290	cpm	soil	0.25
310793.228	1959647.25	-64.78421333	17.71586667	1270	cpm	soil	0.25
0*	0*	0*	0*	1430	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310801.209	1959649.94	-64.78413833	17.71589167	1860	cpm	soil	0.25
310803.868	1959650.66	-64.78411333	17.71589833	1930	cpm	soil	0.25
310806.704	1959651.37	-64.78408667	17.715905	1950	cpm	soil	0.25
310809.364	1959652.26	-64.78406167	17.71591333	1910	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
310814.855	1959653.32	-64.78401	17.71592333	1810	cpm	soil	0.25
310816.096	1959653.68	-64.78399833	17.71592667	1830	cpm	soil	0.25
310820.346	1959654.37	-64.78395833	17.71593333	1910	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310784.395	1959648.07	-64.78429667	17.71587333	1760	cpm	soil	0.25
310781.383	1959647.36	-64.784325	17.71586667	1780	cpm	soil	0.25
310778.544	1959646.28	-64.78435167	17.71585667	1650	cpm	soil	0.25
310775.528	1959645.2	-64.78438	17.71584667	1560	cpm	soil	0.25
310773.933	1959644.85	-64.784395	17.71584333	1450	cpm	soil	0.25
310771.453	1959644.32	-64.78441833	17.71583833	1480	cpm	soil	0.25
310768.623	1959644.16	-64.784445	17.71583667	1560	cpm	soil	0.25
310765.433	1959643.46	-64.784475	17.71583	1540	cpm	soil	0.25
310762.241	1959642.38	-64.784505	17.71582	1730	cpm	soil	0.25
310757.818	1959642.05	-64.78454667	17.71581667	1750	cpm	soil	0.25
310755.686	1959640.97	-64.78456667	17.71580667	1720	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
310755.49	1959638.94	-64.78456833	17.71578833	1680	cpm	soil	0.25
310755.665	1959638.75	-64.78456667	17.71578667	1650	cpm	soil	0.25
310755.665	1959638.75	-64.78456667	17.71578667	1630	cpm	soil	0.25
0*	0*	0*	0*	1680	cpm	soil	0.25
0*	0*	0*	0*	1660	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
310755.129	1959638.2	-64.78457167	17.71578167	1670	cpm	soil	0.25
310754.417	1959637.66	-64.78457833	17.71577667	1740	cpm	soil	0.25
310754.056	1959636.92	-64.78458167	17.71577	1800	cpm	soil	0.25
310754.056	1959636.92	-64.78458167	17.71577	1880	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
310788.779	1959588.26	-64.78425	17.71533333	1880	cpm	soil	0.25
310793.372	1959587.85	-64.78420667	17.71533	1820	cpm	soil	0.25
310796.558	1959588.19	-64.78417667	17.71533333	1630	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
310802.756	1959589.23	-64.78411833	17.71534333	1470	cpm	soil	0.25
310805.759	1959589.02	-64.78409	17.71534167	1410	cpm	soil	0.25
310807.347	1959588.64	-64.784075	17.71533833	1400	cpm	soil	0.25
0*	0*	0*	0*	1350	cpm	soil	0.25
310815.295	1959587.82	-64.784	17.71533167	1390	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310818.828	1959587.42	-64.78396667	17.71532833	1550	cpm	soil	0.25
310822.19	1959587.76	-64.783935	17.71533167	1660	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
310828.745	1959589.17	-64.78387333	17.715345	1790	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
310833.351	1959590.05	-64.78383	17.71535333	2000	cpm	soil	0.25
310834.413	1959590.23	-64.78382	17.715355	2220	cpm	soil	0.25
310835.652	1959590.4	-64.78380833	17.71535667	2100	cpm	soil	0.25
310838.838	1959590.74	-64.78377833	17.71536	2080	cpm	soil	0.25
310840.431	1959590.91	-64.78376333	17.71536167	2180	cpm	soil	0.25
310843.613	1959590.88	-64.78373333	17.71536167	2270	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
310810.183	1959589.35	-64.78404833	17.715345	1620	cpm	soil	0.25
310807.179	1959589.56	-64.78407667	17.71534667	1510	cpm	soil	0.25
310805.957	1959591.23	-64.78408833	17.71536167	1500	cpm	soil	0.25
310802.092	1959593.85	-64.784125	17.715385	1530	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
310797.849	1959593.89	-64.784165	17.715385	1550	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
310789.708	1959593.05	-64.78424167	17.71537667	1700	cpm	soil	0.25
310786.699	1959592.71	-64.78427	17.71537333	1810	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
310780.507	1959592.21	-64.78432833	17.71536833	1870	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
310776.085	1959592.07	-64.78437	17.71536667	1870	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
310774.347	1959595.22	-64.78438667	17.715395	2070	cpm	soil	0.25
310775.765	1959595.58	-64.78437333	17.71539833	2120	cpm	soil	0.25
310778.957	1959596.65	-64.78434333	17.71540833	2040	cpm	soil	0.25
310780.554	1959597.19	-64.78432833	17.71541333	1870	cpm	soil	0.25
310785.166	1959598.81	-64.784285	17.71542833	1800	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
310794.9	1959599.82	-64.78419333	17.71543833	1920	cpm	soil	0.25
310772.047	1959613.69	-64.78441	17.71556167	1950	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
310769.631	1959619.99	-64.78443333	17.71561833	2200	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
310767.539	1959623.14	-64.78445333	17.71564667	1860	cpm	soil	0.25
310765.602	1959623.9	-64.78447167	17.71565333	1860	cpm	soil	0.25
310764.9	1959624.46	-64.78447833	17.71565833	1940	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
310757.501	1959627.3	-64.78454833	17.71568333	1920	cpm	soil	0.25
310755.39	1959628.42	-64.78456833	17.71569333	1960	cpm	soil	0.25
310754.34	1959629.54	-64.78457833	17.71570333	1900	cpm	soil	0.25

Table 5-4: Gamma Count Rate Measurements Collected in Harvey (Bethlehem Village and Profit Hills)							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310753.647	1959631.02	-64.784585	17.71571667	1760	cpm	soil	0.25
310752.785	1959633.43	-64.78459333	17.71573833	1680	cpm	soil	0.25
310751.746	1959635.65	-64.78460333	17.71575833	1720	cpm	soil	0.25
310751.576	1959636.39	-64.784605	17.715765	1670	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
310800.219	1959601.43	-64.78414333	17.71545333	1820	cpm	soil	0.25
310800.947	1959603.64	-64.78413667	17.71547333	1690	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
310795.309	1959605.72	-64.78419	17.71549167	1620	cpm	soil	0.25
310793.713	1959605.19	-64.784205	17.71548667	1630	cpm	soil	0.25
310789.276	1959603.38	-64.78424667	17.71547	1650	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
310783.601	1959601.59	-64.7843	17.71545333	1530	cpm	soil	0.25
0*	0*	0*	0*	1440	cpm	soil	0.25
310777.919	1959599.06	-64.78435333	17.71543	1480	cpm	soil	0.25
0*	0*	0*	0*	1480	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
310773.517	1959600.95	-64.784395	17.71544667	1500	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
310772.644	1959602.06	-64.78440333	17.71545667	1660	cpm	soil	0.25
310772.651	1959602.8	-64.78440333	17.71546333	1580	cpm	soil	0.25
0*	0*	0*	0*	1560	cpm	soil	0.25
310772.85	1959605.2	-64.78440167	17.715485	1630	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
310772.707	1959608.7	-64.78440333	17.71551667	1860	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
			Minimum =	**1160**			
			Maximum =	**3440**			
			Median =	**1980**			
			Arithmetic mean =	**2045**			
			One Sigma =	**430**			
			Two Sigma =	**859**			

Average Background =	**5193.75**	**cpm**		
Background +/- One	**4597**	**to**	**5790**	**cpm**
Background +/- Two	**4000**	**to**	**6387**	**cpm**

0* - GPS data not available

Table 5-5

Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles

Table 5-5: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311354.8765	1959884.338	-64.77894	17.71805667	1950	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1960	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1990	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1970	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1970	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1980	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1980	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1980	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2020	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2010	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	1980	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2030	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2070	cpm	soil	0.25
311354.8765	1959884.338	-64.77894	17.71805667	2100	cpm	soil	0.25
311355.7535	1959883.592	-64.77893167	17.71805	2130	cpm	soil	0.25
311356.6287	1959882.662	-64.77892333	17.71804167	2110	cpm	soil	0.25
311357.6755	1959881.176	-64.77891333	17.71802833	2150	cpm	soil	0.25
311357.847	1959880.621	-64.77891167	17.71802333	2190	cpm	soil	0.25
0*	0*	0*	0*	2280	cpm	soil	0.25
311357.8453	1959880.436	-64.77891167	17.71802167	2330	cpm	soil	0.25
311358.0203	1959880.25	-64.77891	17.71802	2400	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
311359.5887	1959877.837	-64.778895	17.71799833	2360	cpm	soil	0.25
311361.6858	1959875.235	-64.778875	17.717975	2310	cpm	soil	0.25
311363.0861	1959873.746	-64.77886167	17.71796167	2280	cpm	soil	0.25
311364.4847	1959872.072	-64.77884833	17.71794667	2320	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
311367.9786	1959867.612	-64.778815	17.71790667	2030	cpm	soil	0.25
311370.2541	1959865.192	-64.77879333	17.717885	1980	cpm	soil	0.25
311371.8295	1959863.517	-64.77877833	17.71787	1950	cpm	soil	0.25
311372.7047	1959862.586	-64.77877	17.71786167	1920	cpm	soil	0.25
311374.2801	1959860.911	-64.778755	17.71784667	1910	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
311374.8052	1959860.352	-64.77875	17.71784167	1940	cpm	soil	0.25
311374.8052	1959860.352	-64.77875	17.71784167	1880	cpm	soil	0.25
311374.8035	1959860.168	-64.77875	17.71784	1880	cpm	soil	0.25
311374.8035	1959860.168	-64.77875	17.71784	1870	cpm	soil	0.25
311376.0253	1959858.496	-64.77873833	17.717825	1820	cpm	soil	0.25
0*	0*	0*	0*	1780	cpm	soil	0.25
311379.3459	1959854.406	-64.77870667	17.71778833	1770	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
311382.845	1959850.499	-64.77867333	17.71775333	1680	cpm	soil	0.25
311384.2436	1959848.826	-64.77866	17.71773833	1660	cpm	soil	0.25
311384.4169	1959848.455	-64.77865833	17.717735	1640	cpm	soil	0.25
311384.4169	1959848.455	-64.77865833	17.717735	1650	cpm	soil	0.25
311384.4169	1959848.455	-64.77865833	17.717735	1610	cpm	soil	0.25

Table 5-5: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311384.4169	1959848.455	-64.77865833	17.717735	1630	cpm	soil	0.25
311384.9385	1959847.528	-64.77865333	17.71772667	1610	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25
311387.0286	1959844.187	-64.77863333	17.71769667	1610	cpm	soil	0.25
311388.0701	1959842.148	-64.77862333	17.71767833	1570	cpm	soil	0.25
311388.59	1959841.037	-64.77861833	17.71766833	1560	cpm	soil	0.25
311388.9297	1959839.557	-64.778615	17.717655	1550	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1530	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1520	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1520	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1550	cpm	soil	0.25
311388.9244	1959839.004	-64.778615	17.71765	1520	cpm	soil	0.25
311388.3749	1959836.98	-64.77862	17.71763167	1500	cpm	soil	0.25
311387.4701	1959834.775	-64.77862833	17.71761167	1480	cpm	soil	0.25
0*	0*	0*	0*	1450	cpm	soil	0.25
0*	0*	0*	0*	1460	cpm	soil	0.25
311382.6323	1959827.995	-64.77867333	17.71755	1490	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
311377.6387	1959823.43	-64.77872	17.71750833	1570	cpm	soil	0.25
311376.5676	1959822.333	-64.77873	17.71749833	1560	cpm	soil	0.25
311376.5676	1959822.333	-64.77873	17.71749833	1610	cpm	soil	0.25
311376.5676	1959822.333	-64.77873	17.71749833	1700	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311376.5676	1959822.333	-64.77873	17.71749833	1860	cpm	soil	0.25
311375.5016	1959821.79	-64.77874	17.71749333	1890	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
311373.3715	1959820.888	-64.77876	17.717485	1900	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
311371.7717	1959819.981	-64.778775	17.71747667	1870	cpm	soil	0.25
311370.7075	1959819.622	-64.778785	17.71747333	1910	cpm	soil	0.25
311366.6292	1959818.369	-64.77882333	17.71746167	1890	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311361.3168	1959817.497	-64.77887333	17.71745333	1810	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
311357.7776	1959817.161	-64.77890667	17.71745	1700	cpm	soil	0.25
311355.4777	1959816.998	-64.77892833	17.71744833	1640	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
311350.6957	1959816.121	-64.77897333	17.71744	1620	cpm	soil	0.25
311347.5153	1959816.336	-64.77900333	17.71744167	1650	cpm	soil	0.25
311346.4563	1959816.53	-64.77901333	17.71744333	1650	cpm	soil	0.25
311345.3956	1959816.54	-64.77902333	17.71744333	1640	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
311340.6259	1959816.954	-64.77906833	17.71744667	1670	cpm	soil	0.25
311337.9758	1959817.164	-64.77909333	17.71744833	1680	cpm	soil	0.25
311335.324	1959817.189	-64.77911833	17.71744833	1720	cpm	soil	0.25
311333.9115	1959817.387	-64.77913167	17.71745	1730	cpm	soil	0.25

Table 5-5: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	1700	cpm	soil	0.25
0*	0*	0*	0*	1680	cpm	soil	0.25
311324.2004	1959818.77	-64.77922333	17.71746167	1690	cpm	soil	0.25
311321.5556	1959819.533	-64.77924833	17.71746833	1710	cpm	soil	0.25
311320.3216	1959819.913	-64.77926	17.71747167	1700	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
311311.5119	1959823.133	-64.77934333	17.7175	1810	cpm	soil	0.25
311309.2259	1959824.446	-64.779365	17.71751167	1820	cpm	soil	0.25
311307.1149	1959825.573	-64.779385	17.71752167	1820	cpm	soil	0.25
311305.0057	1959826.884	-64.779405	17.71753333	1820	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311301.8462	1959829.312	-64.779435	17.717555	1830	cpm	soil	0.25
311299.9172	1959830.99	-64.77945333	17.71757	1810	cpm	soil	0.25
311297.1096	1959833.231	-64.77948	17.71759	1790	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
311294.1269	1959835.657	-64.77950833	17.71761167	1720	cpm	soil	0.25
311291.4978	1959838.08	-64.77953333	17.71763333	1690	cpm	soil	0.25
311289.9224	1959839.755	-64.77954833	17.71764833	1640	cpm	soil	0.25
311289.2222	1959840.5	-64.779555	17.717655	1610	cpm	soil	0.25
311288.5238	1959841.429	-64.77956167	17.71766333	1580	cpm	soil	0.25
311286.0749	1959844.219	-64.779585	17.71768833	1550	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
311286.6332	1959847.166	-64.77958	17.717715	1530	cpm	soil	0.25
311289.089	1959845.113	-64.77955667	17.71769667	1490	cpm	soil	0.25
311290.141	1959844.181	-64.77954667	17.71768833	1500	cpm	soil	0.25
311292.9452	1959841.572	-64.77952	17.717665	1500	cpm	soil	0.25
311294.8741	1959839.893	-64.77950167	17.71765	1500	cpm	soil	0.25
311296.4513	1959838.402	-64.77948667	17.71763667	1520	cpm	soil	0.25
311297.3282	1959837.656	-64.77947833	17.71763	1550	cpm	soil	0.25
311299.4322	1959835.792	-64.77945833	17.71761333	1600	cpm	soil	0.25
311302.5882	1959832.994	-64.77942833	17.71758833	1650	cpm	soil	0.25
311304.8707	1959831.313	-64.77940667	17.71757333	1680	cpm	soil	0.25
311306.9765	1959829.632	-64.77938667	17.71755833	1720	cpm	soil	0.25
311307.6801	1959829.257	-64.77938	17.717555	1830	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311307.8552	1959829.071	-64.77937833	17.71755333	1870	cpm	soil	0.25
311307.8552	1959829.071	-64.77937833	17.71755333	1880	cpm	soil	0.25
311309.7876	1959827.761	-64.77936	17.71754167	1950	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311313.1291	1959825.885	-64.77932833	17.717525	1920	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311319.4673	1959823.058	-64.77926833	17.7175	1860	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311324.7552	1959821.347	-64.77921833	17.717485	1830	cpm	soil	0.25
311327.4017	1959820.769	-64.77919333	17.71748	1830	cpm	soil	0.25
311328.8126	1959820.387	-64.77918	17.71747667	1820	cpm	soil	0.25

Table 5-5: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311332.6966	1959819.796	-64.77914333	17.71747167	1820	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311343.8202	1959818.215	-64.77903833	17.71745833	1780	cpm	soil	0.25
311346.6505	1959818.373	-64.77901167	17.71746	1780	cpm	soil	0.25
311349.4826	1959818.715	-64.778985	17.71746333	1740	cpm	soil	0.25
311352.3164	1959819.242	-64.77895833	17.71746833	1710	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
311357.6305	1959820.299	-64.77890833	17.71747833	1610	cpm	soil	0.25
311360.4643	1959820.825	-64.77888167	17.71748333	1610	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
311365.7836	1959822.435	-64.77883167	17.71749833	1620	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
311370.9383	1959825.338	-64.77878333	17.717525	1640	cpm	soil	0.25
311372.3595	1959826.063	-64.77877	17.71753167	1670	cpm	soil	0.25
311374.852	1959827.884	-64.77874667	17.71754833	1680	cpm	soil	0.25
311378.4139	1959830.617	-64.77871333	17.71757333	1710	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
311382.8666	1959834.08	-64.77867167	17.717605	1690	cpm	soil	0.25
311385.0038	1959835.721	-64.77865167	17.71762	1670	cpm	soil	0.25
0*	0*	0*	0*	1650	cpm	soil	0.25
311387.5067	1959838.649	-64.77862833	17.71764667	1670	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
311389.3146	1959842.874	-64.77861167	17.717685	1600	cpm	soil	0.25
311388.0789	1959843.071	-64.77862333	17.71768667	1590	cpm	soil	0.25
311387.1897	1959842.526	-64.77863167	17.71768167	1590	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
311381.8478	1959838.518	-64.77868167	17.717645	1510	cpm	soil	0.25
311379.7106	1959836.877	-64.77870167	17.71763	1500	cpm	soil	0.25
311377.5735	1959835.237	-64.77872167	17.717615	1500	cpm	soil	0.25
311375.2579	1959833.414	-64.77874333	17.71759833	1520	cpm	soil	0.25
311374.0151	1959832.873	-64.778755	17.71759333	1500	cpm	soil	0.25
311371.3459	1959831.053	-64.77878	17.71757667	1520	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
311366.5517	1959828.885	-64.778825	17.71755667	1530	cpm	soil	0.25
311365.309	1959828.343	-64.77883667	17.71755167	1580	cpm	soil	0.25
311361.229	1959826.906	-64.778875	17.71753833	1620	cpm	soil	0.25
311358.3952	1959826.379	-64.77890167	17.71753333	1630	cpm	soil	0.25
311355.3828	1959825.67	-64.77893	17.71752667	1620	cpm	soil	0.25
311353.9668	1959825.499	-64.77894333	17.717525	1580	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
311348.1224	1959824.447	-64.77899833	17.717515	1600	cpm	soil	0.25
311343.8778	1959824.303	-64.77903833	17.71751333	1610	cpm	soil	0.25
311340.8724	1959824.331	-64.77906667	17.71751333	1590	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
0*	0*	0*	0*	1590	cpm	soil	0.25

Table 5-5: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311332.2168	1959825.151	-64.77914833	17.71752	1620	cpm	soil	0.25
311329.3935	1959825.731	-64.779175	17.717525	1610	cpm	soil	0.25
311328.1595	1959826.112	-64.77918667	17.71752833	1620	cpm	soil	0.25
311323.9323	1959827.812	-64.77922667	17.71754333	1630	cpm	soil	0.25
311321.1142	1959828.945	-64.77925333	17.71755333	1670	cpm	soil	0.25
311318.4746	1959830.262	-64.77927833	17.717565	1730	cpm	soil	0.25
311315.6582	1959831.58	-64.779305	17.71757667	1790	cpm	soil	0.25
311313.0204	1959833.08	-64.77933	17.71759	1820	cpm	soil	0.25
311311.7898	1959833.83	-64.77934167	17.71759667	1850	cpm	soil	0.25
311309.152	1959835.331	-64.77936667	17.71761	1870	cpm	soil	0.25
311305.4639	1959837.948	-64.77940167	17.71763333	1850	cpm	soil	0.25
311303.1848	1959839.999	-64.77942333	17.71765167	1830	cpm	soil	0.25
311301.0826	1959842.048	-64.77944333	17.71767	1790	cpm	soil	0.25
311298.9803	1959844.097	-64.77946333	17.71768833	1750	cpm	soil	0.25
311297.2299	1959845.959	-64.77948	17.717705	1700	cpm	soil	0.25
0*	0*	0*	0*	1680	cpm	soil	0.25
311293.3755	1959849.685	-64.77951667	17.71773833	1640	cpm	soil	0.25
311291.9787	1959851.543	-64.77953	17.717755	1610	cpm	soil	0.25
311292.1642	1959852.463	-64.77952833	17.71776333	1600	cpm	soil	0.25
311294.4711	1959853.364	-64.77950667	17.71777167	1580	cpm	soil	0.25
311296.4018	1959851.87	-64.77948833	17.71775833	1540	cpm	soil	0.25
311297.6323	1959851.12	-64.77947667	17.71775167	1550	cpm	soil	0.25
0*	0*	0*	0*	1510	cpm	soil	0.25
311302.7312	1959848.12	-64.77942833	17.717725	1560	cpm	soil	0.25
311306.5996	1959845.87	-64.77939167	17.717705	1600	cpm	soil	0.25
0*	0*	0*	0*	1660	cpm	soil	0.25
311311.6985	1959842.87	-64.77934333	17.71767833	1630	cpm	soil	0.25
311313.9828	1959841.373	-64.77932167	17.717665	1670	cpm	soil	0.25
311316.4456	1959840.058	-64.77929833	17.71765333	1710	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
311320.1424	1959838.363	-64.77926333	17.71763833	1690	cpm	soil	0.25
311323.8392	1959836.668	-64.77922833	17.71762333	1700	cpm	soil	0.25
311326.3055	1959835.722	-64.779205	17.717615	1710	cpm	soil	0.25
311327.7163	1959835.34	-64.77919167	17.71761167	1790	cpm	soil	0.25
0*	0*	0*	0*	1790	cpm	soil	0.25
311333.3543	1959833.257	-64.77913833	17.71759333	1780	cpm	soil	0.25
311334.59	1959833.061	-64.77912667	17.71759167	1760	cpm	soil	0.25
311338.6526	1959832.654	-64.77908833	17.71758833	1800	cpm	soil	0.25
311341.4812	1959832.627	-64.77906167	17.71758833	1790	cpm	soil	0.25
311344.1348	1959832.786	-64.77903667	17.71759	1750	cpm	soil	0.25
311346.7865	1959832.761	-64.77901167	17.71759	1730	cpm	soil	0.25
311349.6186	1959833.103	-64.778985	17.71759333	1680	cpm	soil	0.25
311350.8579	1959833.276	-64.77897333	17.717595	1650	cpm	soil	0.25
311354.7524	1959833.793	-64.77893667	17.7176	1680	cpm	soil	0.25
311357.2326	1959834.323	-64.77891333	17.717605	1680	cpm	soil	0.25
311359.8931	1959835.22	-64.77888833	17.71761333	1680	cpm	soil	0.25
311361.1359	1959835.762	-64.77887667	17.71761833	1690	cpm	soil	0.25

Table 5-5: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311364.514	1959837.759	-64.778845	17.71763667	1690	cpm	soil	0.25
311367.0029	1959839.211	-64.77882167	17.71765	1650	cpm	soil	0.25
311368.2474	1959839.937	-64.77881	17.71765667	1640	cpm	soil	0.25
311370.7399	1959841.759	-64.77878667	17.71767333	1640	cpm	soil	0.25
311372.7002	1959843.4	-64.77876833	17.71768833	1660	cpm	soil	0.25
311375.9068	1959845.953	-64.77873833	17.71771167	1660	cpm	soil	0.25
311376.7994	1959846.867	-64.77873	17.71772	1650	cpm	soil	0.25
311380.006	1959849.419	-64.7787	17.71774333	1640	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
311382.6857	1959852.345	-64.778675	17.71777	1610	cpm	soil	0.25
311381.8052	1959852.723	-64.77868333	17.71777333	1590	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
311377.1931	1959851.106	-64.77872667	17.71775833	1550	cpm	soil	0.25
311375.0594	1959849.835	-64.77874667	17.71774667	1520	cpm	soil	0.25
311372.749	1959848.565	-64.77876833	17.717735	1520	cpm	soil	0.25
311371.5045	1959847.839	-64.77878	17.71772833	1560	cpm	soil	0.25
311367.9514	1959846.028	-64.77881333	17.71771167	1590	cpm	soil	0.25
0*	0*	0*	0*	1610	cpm	soil	0.25
311362.6234	1959843.496	-64.77886333	17.71768833	1610	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
311357.8292	1959841.327	-64.77890833	17.71766833	1580	cpm	soil	0.25
311354.1045	1959840.071	-64.77894333	17.71765667	1640	cpm	soil	0.25
311351.4458	1959839.358	-64.77896833	17.71765	1690	cpm	soil	0.25
311348.7887	1959838.83	-64.77899333	17.717645	1720	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
311342.2442	1959838.523	-64.779055	17.71764167	1780	cpm	soil	0.25
311339.5941	1959838.732	-64.77908	17.71764333	1820	cpm	soil	0.25
311335.1814	1959839.512	-64.77912167	17.71765	1890	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311329.722	1959841.777	-64.77917333	17.71767	1950	cpm	soil	0.25
311327.0824	1959843.094	-64.77919833	17.71768167	1970	cpm	soil	0.25
311324.6231	1959844.777	-64.77922167	17.71769667	1980	cpm	soil	0.25
311321.8119	1959846.649	-64.77924833	17.71771333	2010	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
311317.0736	1959850.383	-64.77929333	17.71774667	2010	cpm	soil	0.25
311314.6195	1959852.62	-64.77931667	17.71776667	1990	cpm	soil	0.25
311313.746	1959853.735	-64.779325	17.71777667	1980	cpm	soil	0.25
311310.7686	1959856.715	-64.77935333	17.71780333	2000	cpm	soil	0.25
311309.8951	1959857.83	-64.77936167	17.71781333	2000	cpm	soil	0.25
311307.6178	1959860.065	-64.77938333	17.71783333	2030	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311305.1707	1959863.04	-64.77940667	17.71786	1910	cpm	soil	0.25
311305.897	1959865.062	-64.7794	17.71787833	1870	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311307.6544	1959863.939	-64.77938333	17.71786833	1830	cpm	soil	0.25
311309.4049	1959862.078	-64.77936667	17.71785167	1830	cpm	soil	0.25

Table 5-5: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311311.6839	1959860.027	-64.779345	17.71783333	1840	cpm	soil	0.25
311315.0149	1959857.044	-64.77931333	17.71780667	1840	cpm	soil	0.25
311317.294	1959854.993	-64.77929167	17.71778833	1870	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311321.5002	1959851.079	-64.77925167	17.71775333	1830	cpm	soil	0.25
311322.3754	1959850.148	-64.77924333	17.717745	1840	cpm	soil	0.25
311324.6579	1959848.466	-64.77922167	17.71773	1850	cpm	soil	0.25
311326.9422	1959846.969	-64.7792	17.71771667	1910	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311336.102	1959843.377	-64.77911333	17.717685	1960	cpm	soil	0.25
311340.1628	1959842.786	-64.779075	17.71768	1970	cpm	soil	0.25
311341.4003	1959842.774	-64.77906333	17.71768	1920	cpm	soil	0.25
311345.2931	1959843.106	-64.77902667	17.71768333	1890	cpm	soil	0.25
311347.9501	1959843.634	-64.77900167	17.71768833	1910	cpm	soil	0.25
311350.6106	1959844.532	-64.77897667	17.71769667	1920	cpm	soil	0.25
0*	0*	0*	0*	1920	cpm	soil	0.25
311354.3388	1959846.157	-64.77894167	17.71771167	1900	cpm	soil	0.25
311357.8955	1959848.337	-64.77890833	17.71773167	1860	cpm	soil	0.25
311360.2094	1959849.975	-64.77888667	17.71774667	1830	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25
311363.416	1959852.528	-64.77885667	17.71777	1810	cpm	soil	0.25
311365.3763	1959854.169	-64.77883833	17.717785	1780	cpm	soil	0.25
311368.4078	1959856.908	-64.77881	17.71781	1780	cpm	soil	0.25
311370.727	1959859.1	-64.77878833	17.71783	1740	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
311373.4136	1959862.764	-64.77876333	17.71786333	1720	cpm	soil	0.25
311372.1831	1959863.513	-64.778775	17.71787	1720	cpm	soil	0.25
311369.5243	1959862.801	-64.7788	17.71786333	1690	cpm	soil	0.25
311367.5657	1959861.343	-64.77881833	17.71785	1660	cpm	soil	0.25
311366.498	1959860.615	-64.77882833	17.71784333	1660	cpm	soil	0.25
311363.2915	1959858.063	-64.77885833	17.71782	1670	cpm	soil	0.25
311362.4006	1959857.334	-64.77886667	17.71781333	1690	cpm	soil	0.25
311359.1923	1959854.597	-64.77889667	17.71778833	1730	cpm	soil	0.25
311357.0569	1959853.141	-64.77891667	17.717775	1760	cpm	soil	0.25
311354.5679	1959851.689	-64.77894	17.71776167	1740	cpm	soil	0.25
311353.5002	1959850.961	-64.77895	17.717755	1780	cpm	soil	0.25
311349.422	1959849.708	-64.77898833	17.71774333	1850	cpm	soil	0.25
311346.7649	1959849.18	-64.77901333	17.71773833	1910	cpm	soil	0.25
311345.1739	1959849.195	-64.77902833	17.71773833	1940	cpm	soil	0.25
311342.3453	1959849.222	-64.779055	17.71773833	1930	cpm	soil	0.25
311337.9274	1959849.448	-64.77909667	17.71774	1890	cpm	soil	0.25
311335.1058	1959850.212	-64.77912333	17.71774667	1940	cpm	soil	0.25
311332.2877	1959851.346	-64.77915	17.71775667	1950	cpm	soil	0.25
311330.8803	1959852.097	-64.77916333	17.71776333	1940	cpm	soil	0.25

Table 5-5: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311327.012	1959854.347	-64.7792	17.71778333	1950	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311323.3239	1959856.965	-64.779235	17.71780667	1930	cpm	soil	0.25
311321.0448	1959859.016	-64.77925667	17.717825	1920	cpm	soil	0.25
311317.8906	1959861.997	-64.77928667	17.71785167	1950	cpm	soil	0.25
311317.0154	1959862.928	-64.779295	17.71786	2030	cpm	soil	0.25
311314.3897	1959865.72	-64.77932	17.717885	2010	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311311.9566	1959870.17	-64.77934333	17.717925	1940	cpm	soil	0.25
311313.2063	1959871.45	-64.77933167	17.71793667	1950	cpm	soil	0.25
311314.9654	1959870.511	-64.779315	17.71792833	1890	cpm	soil	0.25
311317.7679	1959867.717	-64.77928833	17.71790333	1860	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
311320.5668	1959864.555	-64.77926167	17.717875	1920	cpm	soil	0.25
311323.1837	1959860.84	-64.77923667	17.71784167	1960	cpm	soil	0.25
311324.7539	1959858.612	-64.77922167	17.71782167	1940	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311327.3795	1959855.82	-64.77919667	17.71779667	1970	cpm	soil	0.25
311330.1871	1959853.58	-64.77917	17.71777667	1960	cpm	soil	0.25
311332.2981	1959852.453	-64.77915	17.71776667	1990	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
311337.7593	1959850.372	-64.77909833	17.71774833	1990	cpm	soil	0.25
311340.2308	1959849.98	-64.779075	17.717745	2030	cpm	soil	0.25
311343.9451	1959850.129	-64.77904	17.71774667	2000	cpm	soil	0.25
311345.3611	1959850.3	-64.77902667	17.71774833	2030	cpm	soil	0.25
311349.0823	1959851.187	-64.77899167	17.71775667	2040	cpm	soil	0.25
311351.3875	1959851.903	-64.77897	17.71776333	2090	cpm	soil	0.25
311353.1624	1959852.624	-64.77895333	17.71777	2120	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311358.3293	1959856.819	-64.778905	17.71780833	2080	cpm	soil	0.25
311359.2219	1959857.733	-64.77889667	17.71781667	2080	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
311363.6869	1959862.487	-64.778855	17.71786	2030	cpm	soil	0.25
311364.9383	1959863.951	-64.77884333	17.71787333	1960	cpm	soil	0.25
311366.7219	1959865.594	-64.77882667	17.71788833	1930	cpm	soil	0.25
311367.6145	1959866.508	-64.77881833	17.71789667	1850	cpm	soil	0.25
311368.6892	1959867.974	-64.77880833	17.71791	1790	cpm	soil	0.25
311367.1156	1959869.833	-64.77882333	17.71792667	1750	cpm	soil	0.25
0*	0*	0*	0*	1710	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
311363.3752	1959866.917	-64.77885833	17.7179	1710	cpm	soil	0.25
311361.7667	1959865.088	-64.77887333	17.71788333	1740	cpm	soil	0.25
311360.1582	1959863.258	-64.77888833	17.71786667	1780	cpm	soil	0.25
311359.2655	1959862.344	-64.77889667	17.71785833	1820	cpm	soil	0.25
0*	0*	0*	0*	1860	cpm	soil	0.25

Table 5-5: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311357.657	1959860.515	-64.77891167	17.71784167	1880	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2110	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2180	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2170	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2130	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2110	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2120	cpm	soil	0.25
311357.657	1959860.515	-64.77891167	17.71784167	2210	cpm	soil	0.25
311354.4522	1959858.147	-64.77894167	17.71782	2210	cpm	soil	0.25
311351.965	1959856.879	-64.778965	17.71780833	2270	cpm	soil	0.25
311350.5454	1959856.339	-64.77897833	17.71780333	2320	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311346.1188	1959855.643	-64.77902	17.71779667	2380	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
311344.8796	1959855.47	-64.77903167	17.717795	2370	cpm	soil	0.25
311342.0527	1959855.681	-64.77905833	17.71779667	2380	cpm	soil	0.25
311339.4079	1959856.444	-64.77908333	17.71780333	2340	cpm	soil	0.25
311336.7631	1959857.207	-64.77910833	17.71781	2420	cpm	soil	0.25
311334.2968	1959858.153	-64.77913167	17.71781833	2440	cpm	soil	0.25
0*	0*	0*	0*	2470	cpm	soil	0.25
311330.9588	1959860.398	-64.77916333	17.71783833	2520	cpm	soil	0.25
311327.8028	1959863.195	-64.77919333	17.71786333	2450	cpm	soil	0.25
311325.8756	1959865.058	-64.77921167	17.71788	2400	cpm	soil	0.25
311324.6555	1959866.914	-64.77922333	17.71789667	2430	cpm	soil	0.25
311323.2604	1959868.957	-64.77923667	17.717915	2390	cpm	soil	0.25
311322.2172	1959870.811	-64.77924667	17.71793167	2360	cpm	soil	0.25
311320.647	1959873.04	-64.77926167	17.71795167	2290	cpm	soil	0.25
311319.7823	1959875.077	-64.77927	17.71797	2240	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311321.2122	1959876.724	-64.77925667	17.717985	2170	cpm	soil	0.25
311321.9159	1959876.348	-64.77925	17.71798167	2130	cpm	soil	0.25
311321.9159	1959876.348	-64.77925	17.71798167	2110	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311324.0216	1959874.668	-64.77923	17.71796667	2170	cpm	soil	0.25
311326.1169	1959871.881	-64.77921	17.71794167	2210	cpm	soil	0.25
311326.9904	1959870.766	-64.77920167	17.71793167	2260	cpm	soil	0.25
311328.564	1959868.907	-64.77918667	17.717915	2270	cpm	soil	0.25
311331.0111	1959865.932	-64.77916333	17.71788833	2320	cpm	soil	0.25
311332.7633	1959864.255	-64.77914667	17.71787333	2450	cpm	soil	0.25
311334.3422	1959862.949	-64.77913167	17.71786167	2560	cpm	soil	0.25
311337.1585	1959861.631	-64.779105	17.71785	2600	cpm	soil	0.25

Table 5-5: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311339.6266	1959860.869	-64.77908167	17.71784333	2590	cpm	soil	0.25
311342.0981	1959860.477	-64.77905833	17.71784	2640	cpm	soil	0.25
311343.3356	1959860.465	-64.77904667	17.71784	2590	cpm	soil	0.25
311345.9891	1959860.625	-64.77902167	17.71784167	2690	cpm	soil	0.25
311349.3637	1959862.253	-64.77899	17.71785667	2800	cpm	soil	0.25
311351.1473	1959863.897	-64.77897333	17.71787167	2770	cpm	soil	0.25
311352.7575	1959865.911	-64.77895833	17.71789	2740	cpm	soil	0.25
311353.6502	1959866.825	-64.77895	17.71789833	2720	cpm	soil	0.25
311355.9798	1959870.123	-64.77892833	17.71792833	2700	cpm	soil	0.25
311357.7686	1959872.32	-64.77891167	17.71794833	2590	cpm	soil	0.25
311359.2038	1959874.52	-64.77889833	17.71796833	2480	cpm	soil	0.25
0*	0*	0*	0*	2380	cpm	soil	0.25
311359.405	1959877.101	-64.77889667	17.71799167	2300	cpm	soil	0.25
311356.5572	1959875.099	-64.77892333	17.71797333	2330	cpm	soil	0.25
311354.9435	1959872.716	-64.77893833	17.71795167	2330	cpm	soil	0.25
311353.3315	1959870.517	-64.77895333	17.71793167	2320	cpm	soil	0.25
311351.7195	1959868.319	-64.77896833	17.71791167	2350	cpm	soil	0.25
311351.0036	1959867.403	-64.778975	17.71790333	2480	cpm	soil	0.25
311348.681	1959864.842	-64.77899667	17.71788	2490	cpm	soil	0.25
0*	0*	0*	0*	2530	cpm	soil	0.25
311343.535	1959862.862	-64.779045	17.71786167	2610	cpm	soil	0.25
311340.3511	1959862.707	-64.779075	17.71786	2630	cpm	soil	0.25
311338.7636	1959863.091	-64.77909	17.71786333	2700	cpm	soil	0.25
311335.2522	1959865.707	-64.77912333	17.71788667	2690	cpm	soil	0.25
0*	0*	0*	0*	2720	cpm	soil	0.25
311333.15	1959867.756	-64.77914333	17.717905	2750	cpm	soil	0.25
311329.8207	1959870.924	-64.779175	17.71793333	2750	cpm	soil	0.25
311328.0703	1959872.785	-64.77919167	17.71795	2730	cpm	soil	0.25
311326.4949	1959874.46	-64.77920667	17.717965	2660	cpm	soil	0.25
311324.7497	1959876.875	-64.77922333	17.71798667	2550	cpm	soil	0.25
311324.0548	1959878.173	-64.77923	17.71799833	2500	cpm	soil	0.25
311324.9683	1959881.301	-64.77922167	17.71802667	2500	cpm	soil	0.25
311327.0793	1959880.174	-64.77920167	17.71801667	2560	cpm	soil	0.25
311329.0065	1959878.311	-64.77918333	17.718	2500	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
311332.3219	1959873.667	-64.77915167	17.71795833	2540	cpm	soil	0.25
311334.0671	1959871.253	-64.779135	17.71793667	2520	cpm	soil	0.25
311335.1173	1959870.136	-64.779125	17.71792667	2550	cpm	soil	0.25
311337.7551	1959868.635	-64.7791	17.71791333	2590	cpm	soil	0.25
0*	0*	0*	0*	2620	cpm	soil	0.25
311344.6603	1959869.677	-64.779035	17.71792333	2600	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
311348.0471	1959872.596	-64.77900333	17.71795	2680	cpm	soil	0.25
311351.0786	1959875.335	-64.778975	17.717975	2680	cpm	soil	0.25
0*	0*	0*	0*	2690	cpm	soil	0.25
311355.3546	1959878.8	-64.778935	17.71800667	2630	cpm	soil	0.25
311356.4327	1959880.634	-64.778925	17.71802333	2690	cpm	soil	0.25

Table 5-5: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2630	cpm	soil	0.25
311353.4204	1959879.925	-64.77895333	17.71801667	2650	cpm	soil	0.25
311350.0336	1959877.005	-64.778985	17.71799	2700	cpm	soil	0.25
311347.7179	1959875.182	-64.77900667	17.71797333	2750	cpm	soil	0.25
311346.4717	1959874.272	-64.77901833	17.717965	2740	cpm	soil	0.25
311342.74	1959872.278	-64.77905333	17.71794667	2740	cpm	soil	0.25
311339.5614	1959872.677	-64.77908333	17.71795	2770	cpm	soil	0.25
311336.7485	1959874.364	-64.77911	17.717965	2790	cpm	soil	0.25
311334.2927	1959876.416	-64.77913333	17.71798333	2750	cpm	soil	0.25
311332.0154	1959878.651	-64.779155	17.71800333	2740	cpm	soil	0.25
311329.9166	1959881.069	-64.779175	17.718025	2690	cpm	soil	0.25
311328.5232	1959883.296	-64.77918833	17.718045	2630	cpm	soil	0.25
311329.9515	1959884.759	-64.779175	17.71805833	2580	cpm	soil	0.25
311331.8857	1959883.633	-64.77915667	17.71804833	2540	cpm	soil	0.25
311333.1144	1959882.699	-64.779145	17.71804	2540	cpm	soil	0.25
311336.0902	1959879.535	-64.77911667	17.71801167	2520	cpm	soil	0.25
311337.1404	1959878.418	-64.77910667	17.71800167	2550	cpm	soil	0.25
311339.2409	1959876.185	-64.77908667	17.71798167	2600	cpm	soil	0.25
311343.1285	1959875.963	-64.77905	17.71798	2670	cpm	soil	0.25
311344.5515	1959876.872	-64.77903667	17.71798833	2610	cpm	soil	0.25
311348.1134	1959879.606	-64.77900333	17.71801333	2650	cpm	soil	0.25
311349.3596	1959880.517	-64.77899167	17.71802167	2700	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
311353.2802	1959883.8	-64.778955	17.71805167	2550	cpm	soil	0.25
311352.587	1959885.282	-64.77896167	17.718065	2490	cpm	soil	0.25
0*	0*	0*	0*	2520	cpm	soil	0.25
311347.2451	1959881.274	-64.77901167	17.71802833	2600	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
0*	0*	0*	0*	2500	cpm	soil	0.25
311339.2653	1959878.767	-64.77908667	17.718005	2510	cpm	soil	0.25
311336.806	1959880.451	-64.77911	17.71802	2550	cpm	soil	0.25
311334.527	1959882.502	-64.77913167	17.71803833	2510	cpm	soil	0.25
311332.423	1959884.366	-64.77915167	17.718055	2490	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
311333.5046	1959886.57	-64.77914167	17.718075	2380	cpm	soil	0.25
311336.8409	1959884.14	-64.77911	17.71805333	2360	cpm	soil	0.25
311339.1269	1959882.827	-64.77908833	17.71804167	2490	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
311344.6125	1959883.329	-64.77903667	17.71804667	2650	cpm	soil	0.25
0*	0*	0*	0*	2720	cpm	soil	0.25
311349.4154	1959886.419	-64.77899167	17.718075	2620	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311345.7029	1959886.454	-64.77902667	17.718075	2450	cpm	soil	0.25
311343.3907	1959885	-64.77904833	17.71806167	2480	cpm	soil	0.25
311340.3888	1959885.398	-64.77907667	17.718065	2530	cpm	soil	0.25
311339.1583	1959886.147	-64.77908833	17.71807167	2500	cpm	soil	0.25
311336.7077	1959888.753	-64.77911167	17.718095	2520	cpm	soil	0.25

Table 5-5: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Ballfield Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2510	cpm	soil	0.25
311339.7166	1959889.094	-64.77908333	17.71809833	2450	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
311344.6596	1959888.309	-64.77903667	17.71809167	2490	cpm	soil	0.25
311346.795	1959889.765	-64.77901667	17.718105	2560	cpm	soil	0.25
311347.8627	1959890.492	-64.77900667	17.71811167	2580	cpm	soil	0.25
311346.9892	1959891.608	-64.779015	17.71812167	2520	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
311344.5055	1959890.709	-64.77903833	17.71811333	2660	cpm	soil	0.25
311340.1033	1959892.595	-64.77908	17.71813	2670	cpm	soil	0.25
0*	0*	0*	0*	2610	cpm	soil	0.25
311344.8852	1959893.472	-64.779035	17.71813833	2660	cpm	soil	0.25
311345.9424	1959893.093	-64.779025	17.718135	2690	cpm	soil	0.25
311346.9979	1959892.53	-64.779015	17.71813	2630	cpm	soil	0.25
311350.1591	1959890.286	-64.778985	17.71811	2550	cpm	soil	0.25
311351.7362	1959888.796	-64.77897	17.71809667	2450	cpm	soil	0.25
311352.6132	1959888.049	-64.77896167	17.71809	2390	cpm	soil	0.25
311353.1348	1959887.122	-64.77895667	17.71808167	2370	cpm	soil	0.25
			Minimum =	**1450**			
			Maximum =	**2800**			
			Median =	**1890**			
			Arithmetic mean =	**1992**			
			One Sigma =	**373**			
			Two Sigma =	**746**			

Average Background =	**5193.75**	**cpm**		
Background +/- One Sigma	**4597**	**to**	**5790**	**cpm**
Background +/- Two Sigma	**4000**	**to**	**6387**	**cpm**

0* - GPS data not available

Table 5-6

Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311287.9077	1959738.865	-64.77955833	17.71673667	2250	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
311287.7291	1959738.682	-64.77956	17.716735	1990	cpm	soil	0.25
311287.7291	1959738.682	-64.77956	17.716735	2030	cpm	soil	0.25
311287.7291	1959738.682	-64.77956	17.716735	2090	cpm	soil	0.25
311288.2612	1959738.862	-64.779555	17.71673667	2170	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
311290.2286	1959741.241	-64.77953667	17.71675833	2270	cpm	soil	0.25
311290.4123	1959741.978	-64.779535	17.716765	2310	cpm	soil	0.25
311290.9636	1959744.186	-64.77953	17.716785	2330	cpm	soil	0.25
311291.7004	1959747.315	-64.77952333	17.71681333	2210	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311293.3316	1959751.543	-64.77950833	17.71685167	2160	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311295.3146	1959755.583	-64.77949	17.71688833	2330	cpm	soil	0.25
311296.5696	1959757.416	-64.77947833	17.716905	2140	cpm	soil	0.25
311297.6495	1959759.435	-64.77946833	17.71692333	1980	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
0*	0*	0*	0*	2010	cpm	soil	0.25
311299.8093	1959763.473	-64.77944833	17.71696	2100	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311299.8093	1959763.473	-64.77944833	17.71696	2130	cpm	soil	0.25
311299.8093	1959763.473	-64.77944833	17.71696	1990	cpm	soil	0.25
311299.9931	1959764.209	-64.77944667	17.71696667	1980	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
311303.0543	1959770.083	-64.77941833	17.71702	2130	cpm	soil	0.25
311304.1342	1959772.102	-64.77940833	17.71703833	2270	cpm	soil	0.25
311305.5676	1959774.118	-64.779395	17.71705667	2250	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311307.7327	1959778.709	-64.779375	17.71709833	1930	cpm	soil	0.25
311308.452	1959779.994	-64.77936833	17.71711	1940	cpm	soil	0.25
311309.8977	1959783.301	-64.779355	17.71714	2110	cpm	soil	0.25
311310.9776	1959785.32	-64.779345	17.71715833	2020	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311312.6001	1959788.625	-64.77933	17.71718833	2120	cpm	soil	0.25
311314.0475	1959792.117	-64.77931667	17.71722	1910	cpm	soil	0.25
311315.3042	1959794.134	-64.779305	17.71723833	1990	cpm	soil	0.25
311316.2091	1959796.339	-64.77929667	17.71725833	2120	cpm	soil	0.25
311317.2907	1959798.543	-64.77928667	17.71727833	2180	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
0*	0*	0*	0*	2400	cpm	soil	0.25
311320.1681	1959803.681	-64.77926	17.717325	2310	cpm	soil	0.25
311321.9639	1959806.615	-64.77924333	17.71735167	2290	cpm	soil	0.25
311322.8705	1959809.005	-64.779235	17.71737333	2250	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311323.7719	1959810.841	-64.77922667	17.71739	2240	cpm	soil	0.25
311324.3162	1959812.312	-64.77922167	17.71740333	2140	cpm	soil	0.25
311325.5659	1959813.592	-64.77921	17.717415	2160	cpm	soil	0.25
311327.6891	1959813.756	-64.77919	17.71741667	1820	cpm	soil	0.25
311329.0929	1959812.636	-64.77917667	17.71740667	1730	cpm	soil	0.25
311328.8952	1959810.424	-64.77917833	17.71738667	1710	cpm	soil	0.25
0*	0*	0*	0*	1720	cpm	soil	0.25
311327.2745	1959807.303	-64.77919333	17.71735833	1730	cpm	soil	0.25
311325.6485	1959803.629	-64.77920833	17.717325	1880	cpm	soil	0.25
311324.7402	1959801.055	-64.77921667	17.71730167	2010	cpm	soil	0.25
311323.8318	1959798.481	-64.779225	17.71727833	2200	cpm	soil	0.25
311322.5734	1959796.279	-64.77923667	17.71725833	2200	cpm	soil	0.25
311322.0308	1959794.993	-64.77924167	17.71724667	2210	cpm	soil	0.25
311320.2316	1959791.689	-64.77925833	17.71721667	2220	cpm	soil	0.25
311319.1517	1959789.67	-64.77926833	17.71719833	2270	cpm	soil	0.25
311318.6126	1959788.753	-64.77927333	17.71719	2240	cpm	soil	0.25
311317.5222	1959785.627	-64.77928333	17.71716167	2130	cpm	soil	0.25
311316.7976	1959783.789	-64.77929	17.717145	2120	cpm	soil	0.25
311315.5375	1959781.403	-64.77930167	17.71712333	2150	cpm	soil	0.25
311314.6326	1959779.198	-64.77931	17.71710333	2050	cpm	soil	0.25
311313.5509	1959776.994	-64.77932	17.71708333	1870	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
311311.9285	1959773.689	-64.779335	17.71705333	1980	cpm	soil	0.25
311310.306	1959770.384	-64.77935	17.71702333	1850	cpm	soil	0.25
311309.4011	1959768.178	-64.77935833	17.71700333	1840	cpm	soil	0.25
311308.8603	1959767.077	-64.77936333	17.71699333	1860	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
311306.333	1959761.566	-64.77938667	17.71694333	1760	cpm	soil	0.25
311305.0798	1959759.918	-64.77939833	17.71692833	1880	cpm	soil	0.25
311304.7157	1959758.814	-64.77940167	17.71691833	2000	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311302.7257	1959754.037	-64.77942	17.716875	1920	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
311300.1932	1959747.973	-64.77944333	17.71682	1860	cpm	soil	0.25
311299.4756	1959746.873	-64.77945	17.71681	1900	cpm	soil	0.25
311297.6763	1959743.569	-64.77946667	17.71678	2030	cpm	soil	0.25
0*	0*	0*	0*	2020	cpm	soil	0.25
311295.8753	1959740.081	-64.77948333	17.71674833	2210	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
311293.0031	1959735.496	-64.77951	17.71670667	2360	cpm	soil	0.25
311293.1502	1959732.359	-64.77950833	17.71667833	2350	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
311295.445	1959731.968	-64.77948667	17.716675	2410	cpm	soil	0.25
311297.7676	1959734.529	-64.779465	17.71669833	2480	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
311299.3901	1959737.834	-64.77945	17.71672833	2270	cpm	soil	0.25
311299.9362	1959739.489	-64.779445	17.71674333	2160	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
0*	0*	0*	0*	2260	cpm	soil	0.25
311299.9362	1959739.489	-64.779445	17.71674333	2330	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
0*	0*	0*	0*	2360	cpm	soil	0.25
311299.9362	1959739.489	-64.779445	17.71674333	2400	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
311300.2985	1959740.408	-64.77944167	17.71675167	2330	cpm	soil	0.25
311300.6625	1959741.512	-64.77943833	17.71676167	2650	cpm	soil	0.25
311301.9314	1959744.82	-64.77942667	17.71679167	2530	cpm	soil	0.25
311303.1881	1959746.838	-64.779415	17.71681	2540	cpm	soil	0.25
311304.2697	1959749.041	-64.779405	17.71683	2400	cpm	soil	0.25
311304.8071	1959749.774	-64.7794	17.71683667	2330	cpm	soil	0.25
311305.5334	1959751.796	-64.77939333	17.716855	2180	cpm	soil	0.25
311306.6273	1959755.291	-64.77938333	17.71688667	2260	cpm	soil	0.25
311307.7107	1959757.679	-64.77937333	17.71690833	2170	cpm	soil	0.25
311308.43	1959758.964	-64.77936667	17.71692	2150	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
311312.3995	1959767.412	-64.77933	17.71699667	1980	cpm	soil	0.25
311312.9404	1959768.514	-64.779325	17.71700667	2000	cpm	soil	0.25
311314.3895	1959772.19	-64.77931167	17.71704	2140	cpm	soil	0.25
311315.2944	1959774.395	-64.77930333	17.71706	1940	cpm	soil	0.25
311315.6602	1959775.683	-64.7793	17.71707167	1930	cpm	soil	0.25
311317.1076	1959779.174	-64.77928667	17.71710333	1840	cpm	soil	0.25
311317.6484	1959780.276	-64.77928167	17.71711333	1960	cpm	soil	0.25
311319.6314	1959784.316	-64.77926333	17.71715	1890	cpm	soil	0.25
311320.7148	1959786.704	-64.77925333	17.71717167	1940	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311322.3373	1959790.009	-64.77923833	17.71720167	2280	cpm	soil	0.25
311324.1366	1959793.313	-64.77922167	17.71723167	2200	cpm	soil	0.25
0*	0*	0*	0*	2230	cpm	soil	0.25
311325.9358	1959796.616	-64.779205	17.71726167	2180	cpm	soil	0.25
311327.1995	1959799.371	-64.77919333	17.71728667	2140	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311329.0057	1959803.413	-64.77917667	17.71732333	2310	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311329.9193	1959806.54	-64.77916833	17.71735167	1890	cpm	soil	0.25
311330.4671	1959808.38	-64.77916333	17.71736833	1850	cpm	soil	0.25
311331.7168	1959809.659	-64.77915167	17.71738	1780	cpm	soil	0.25
0*	0*	0*	0*	1770	cpm	soil	0.25
311333.6283	1959806.136	-64.77913333	17.71734833	1780	cpm	soil	0.25
311332.7217	1959803.747	-64.77914167	17.71732667	1570	cpm	soil	0.25
0*	0*	0*	0*	1600	cpm	soil	0.25
311330.9172	1959799.89	-64.77915833	17.71729167	1700	cpm	soil	0.25
311330.0106	1959797.5	-64.77916667	17.71727	1840	cpm	soil	0.25
311329.4681	1959796.214	-64.77917167	17.71725833	1960	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311327.4868	1959792.359	-64.77919	17.71722333	2120	cpm	soil	0.25
311326.0498	1959789.974	-64.77920333	17.71720167	2200	cpm	soil	0.25
311325.5125	1959789.241	-64.77920833	17.717195	2140	cpm	soil	0.25
311324.0703	1959786.303	-64.77922167	17.71716833	2030	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311321.9087	1959782.08	-64.77924167	17.71713	2610	cpm	soil	0.25
311321.1911	1959780.98	-64.77924833	17.71712	2660	cpm	soil	0.25
311320.1112	1959778.961	-64.77925833	17.71710167	2310	cpm	soil	0.25
0*	0*	0*	0*	2420	cpm	soil	0.25
311317.759	1959773.265	-64.77928	17.71705	2220	cpm	soil	0.25
311317.3949	1959772.161	-64.77928333	17.71704	2180	cpm	soil	0.25
311316.1295	1959769.222	-64.779295	17.71701333	2120	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
311313.4132	1959762.422	-64.77932	17.71695167	2030	cpm	soil	0.25
311311.7855	1959758.563	-64.779335	17.71691667	1990	cpm	soil	0.25
0*	0*	0*	0*	1950	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
311309.4349	1959753.051	-64.77935667	17.71686667	1950	cpm	soil	0.25
311307.6357	1959749.747	-64.77937333	17.71683667	2000	cpm	soil	0.25
311307.0966	1959748.83	-64.77937833	17.71682833	2080	cpm	soil	0.25
311305.4741	1959745.525	-64.77939333	17.71679833	2150	cpm	soil	0.25
0*	0*	0*	0*	2050	cpm	soil	0.25
311303.1236	1959740.013	-64.779415	17.71674833	2240	cpm	soil	0.25
311302.0384	1959737.44	-64.779425	17.716725	2230	cpm	soil	0.25
311300.2252	1959732.661	-64.77944167	17.71668167	2320	cpm	soil	0.25
311299.6844	1959731.559	-64.77944667	17.71667167	2270	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
311298.594	1959728.433	-64.77945667	17.71664333	2230	cpm	soil	0.25
311296.7843	1959724.023	-64.77947333	17.71660333	2430	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
311301.7256	1959723.054	-64.77942667	17.716595	2340	cpm	soil	0.25
311305.4678	1959726.155	-64.77939167	17.71662333	2360	cpm	soil	0.25
311307.0763	1959727.984	-64.77937667	17.71664	2440	cpm	soil	0.25
311307.2636	1959729.089	-64.779375	17.71665	2480	cpm	soil	0.25
311306.7576	1959731.677	-64.77938	17.71667333	2650	cpm	soil	0.25
311306.2499	1959734.08	-64.779385	17.716695	2570	cpm	soil	0.25
311306.6279	1959736.659	-64.77938167	17.71671833	2470	cpm	soil	0.25
311307.531	1959738.68	-64.77937333	17.71673667	2520	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
311307.5345	1959739.049	-64.77937333	17.71674	2770	cpm	soil	0.25
0*	0*	0*	0*	2630	cpm	soil	0.25
311309.5088	1959742.166	-64.779355	17.71676833	2280	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311311.6686	1959746.204	-64.779335	17.716805	2270	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
0*	0*	0*	0*	2220	cpm	soil	0.25
311313.6499	1959750.059	-64.77931667	17.71684	2180	cpm	soil	0.25
311314.9084	1959752.261	-64.779305	17.71686	2290	cpm	soil	0.25
311315.4509	1959753.548	-64.7793	17.71687167	2260	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311319.9421	1959761.069	-64.77925833	17.71694	2120	cpm	soil	0.25
311321.0237	1959763.272	-64.77924833	17.71696	2060	cpm	soil	0.25
311321.5663	1959764.558	-64.77924333	17.71697167	2180	cpm	soil	0.25
0*	0*	0*	0*	2210	cpm	soil	0.25
311324.7938	1959769.324	-64.77921333	17.717015	2160	cpm	soil	0.25
311326.0505	1959771.342	-64.77920167	17.71703333	2120	cpm	soil	0.25
311326.9536	1959773.362	-64.77919333	17.71705167	2100	cpm	soil	0.25
311328.3853	1959775.194	-64.77918	17.71706833	1960	cpm	soil	0.25
311329.642	1959777.211	-64.77916833	17.71708667	2070	cpm	soil	0.25
311330.7254	1959779.599	-64.77915833	17.71710833	2250	cpm	soil	0.25
311331.9839	1959781.801	-64.77914667	17.71712833	2440	cpm	soil	0.25
311333.0672	1959784.189	-64.77913667	17.71715	2470	cpm	soil	0.25
0*	0*	0*	0*	2500	cpm	soil	0.25
311334.1646	1959788.052	-64.77912667	17.717185	2330	cpm	soil	0.25
311335.0677	1959790.073	-64.77911833	17.71720333	2400	cpm	soil	0.25
311335.7975	1959792.464	-64.77911167	17.717225	2620	cpm	soil	0.25
311336.7111	1959795.592	-64.77910333	17.71725333	2630	cpm	soil	0.25
0*	0*	0*	0*	2690	cpm	soil	0.25
311337.798	1959798.349	-64.77909333	17.71727833	2500	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311340.3288	1959804.228	-64.77907	17.71733167	1970	cpm	soil	0.25
311340.8748	1959805.883	-64.779065	17.71734667	1800	cpm	soil	0.25
311341.0551	1959806.251	-64.77906333	17.71735	1650	cpm	soil	0.25
311342.6723	1959809.002	-64.77904833	17.717375	1650	cpm	soil	0.25
311344.2774	1959810.463	-64.77903333	17.71738833	1770	cpm	soil	0.25
311345.8649	1959810.079	-64.77901833	17.717385	1710	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
311345.8336	1959806.759	-64.77901833	17.717355	1720	cpm	soil	0.25
0*	0*	0*	0*	1640	cpm	soil	0.25
311345.6393	1959804.916	-64.77902	17.71733833	1550	cpm	soil	0.25
311345.6393	1959804.916	-64.77902	17.71733833	1510	cpm	soil	0.25
0*	0*	0*	0*	1580	cpm	soil	0.25
311344.7345	1959802.711	-64.77902833	17.71731833	1640	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
311342.559	1959797.012	-64.77904833	17.71726667	2140	cpm	soil	0.25
311341.8292	1959794.621	-64.779055	17.717245	2360	cpm	soil	0.25
311341.0994	1959792.23	-64.77906167	17.71722333	2380	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311338.7453	1959786.349	-64.77908333	17.71717	2400	cpm	soil	0.25
311337.2944	1959782.488	-64.77909667	17.717135	2450	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311336.0238	1959778.995	-64.77910833	17.71710333	2610	cpm	soil	0.25
311334.7532	1959775.502	-64.77912	17.71707167	2550	cpm	soil	0.25
311334.3909	1959774.583	-64.77912333	17.71706333	2510	cpm	soil	0.25
311333.297	1959771.089	-64.77913333	17.71703167	2520	cpm	soil	0.25
311332.7562	1959769.987	-64.77913833	17.71702167	2430	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
311330.7523	1959763.734	-64.77915667	17.716965	2280	cpm	soil	0.25
311330.2097	1959762.447	-64.77916167	17.71695333	2280	cpm	soil	0.25
311328.764	1959759.14	-64.779175	17.71692333	2300	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
311327.4934	1959755.647	-64.77918667	17.71689167	2140	cpm	soil	0.25
311326.3995	1959752.153	-64.77919667	17.71686	2070	cpm	soil	0.25
311325.8587	1959751.051	-64.77920167	17.71685	2060	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311323.8809	1959747.565	-64.77922	17.71681833	2110	cpm	soil	0.25
311322.2619	1959744.628	-64.779235	17.71679167	2020	cpm	soil	0.25
311321.7228	1959743.711	-64.77924	17.71678333	2280	cpm	soil	0.25
311319.9218	1959740.223	-64.77925667	17.71675167	2480	cpm	soil	0.25
311318.4849	1959737.838	-64.77927	17.71673	2480	cpm	soil	0.25
311316.8589	1959734.164	-64.779285	17.71669667	2520	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
311315.0562	1959730.492	-64.77930167	17.71666333	2380	cpm	soil	0.25
311313.6087	1959727	-64.779315	17.71663167	2560	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311318.9246	1959728.241	-64.779265	17.71664333	2320	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
311320.0167	1959731.552	-64.779255	17.71667333	2500	cpm	soil	0.25
311320.0167	1959731.552	-64.779255	17.71667333	2650	cpm	soil	0.25
311320.3859	1959733.208	-64.77925167	17.71668833	2640	cpm	soil	0.25
311320.9355	1959735.232	-64.77924667	17.71670667	2710	cpm	soil	0.25
0*	0*	0*	0*	2710	cpm	soil	0.25
311322.5736	1959740.198	-64.77923167	17.71675167	2630	cpm	soil	0.25
311324.0089	1959742.398	-64.77921833	17.71677167	2420	cpm	soil	0.25
311324.7352	1959744.42	-64.77921167	17.71679	2310	cpm	soil	0.25
311325.4615	1959746.443	-64.779205	17.71680833	2520	cpm	soil	0.25
311326.1896	1959748.65	-64.77919833	17.71682833	2410	cpm	soil	0.25
311326.7409	1959750.858	-64.77919333	17.71684833	2250	cpm	soil	0.25
311327.6492	1959753.432	-64.779185	17.71687167	2330	cpm	soil	0.25
311328.3773	1959755.639	-64.77917833	17.71689167	2340	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
311329.823	1959758.946	-64.779165	17.71692167	2310	cpm	soil	0.25
311330.5511	1959761.153	-64.77915833	17.71694167	2280	cpm	soil	0.25
311331.6466	1959764.832	-64.77914833	17.716975	2280	cpm	soil	0.25
311332.7283	1959767.036	-64.77913833	17.716995	2120	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311334.0146	1959772.189	-64.77912667	17.71704167	2230	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311335.098	1959774.577	-64.77911667	17.71706333	2330	cpm	soil	0.25
311336.3564	1959776.779	-64.779105	17.71708333	2390	cpm	soil	0.25
311337.6149	1959778.98	-64.77909333	17.71710333	2320	cpm	soil	0.25
311339.0501	1959781.181	-64.77908	17.71712333	2370	cpm	soil	0.25
311340.4853	1959783.381	-64.77906667	17.71714333	2450	cpm	soil	0.25
311341.742	1959785.398	-64.779055	17.71716167	2590	cpm	soil	0.25
311343.0004	1959787.6	-64.77904333	17.71718167	2620	cpm	soil	0.25
311344.0838	1959789.988	-64.77903333	17.71720333	2500	cpm	soil	0.25
311345.1655	1959792.191	-64.77902333	17.71722333	2400	cpm	soil	0.25
311346.2436	1959794.026	-64.77901333	17.71724	2650	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
311347.502	1959796.228	-64.77900167	17.71726	2590	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
0*	0*	0*	0*	2540	cpm	soil	0.25
311351.2826	1959803.387	-64.77896667	17.717325	2510	cpm	soil	0.25
311352.3659	1959805.775	-64.77895667	17.71734667	2410	cpm	soil	0.25
311353.9797	1959808.158	-64.77894167	17.71736833	2260	cpm	soil	0.25
311355.0578	1959809.992	-64.77893167	17.717385	2080	cpm	soil	0.25
311356.136	1959811.827	-64.77892167	17.71740167	2070	cpm	soil	0.25
311357.3874	1959813.291	-64.77891	17.717415	1890	cpm	soil	0.25
311358.2714	1959813.282	-64.77890167	17.717415	1860	cpm	soil	0.25
311359.3147	1959811.428	-64.77889167	17.71739833	1790	cpm	soil	0.25
311358.9506	1959810.324	-64.778895	17.71738833	1790	cpm	soil	0.25
311357.5032	1959806.833	-64.77890833	17.71735667	1790	cpm	soil	0.25
311356.4181	1959804.261	-64.77891833	17.71733333	1890	cpm	soil	0.25
311355.8773	1959803.159	-64.77892333	17.71732333	1920	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311353.714	1959798.752	-64.77894333	17.71728333	2230	cpm	soil	0.25
311351.913	1959795.264	-64.77896	17.71725167	2300	cpm	soil	0.25
311351.3722	1959794.162	-64.778965	17.71724167	2290	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311348.6576	1959787.546	-64.77899	17.71718167	2350	cpm	soil	0.25
0*	0*	0*	0*	2350	cpm	soil	0.25
311347.5638	1959784.052	-64.779	17.71715	2360	cpm	soil	0.25
311346.2931	1959780.559	-64.77901167	17.71711833	2300	cpm	soil	0.25
311345.3865	1959778.169	-64.77902	17.71709667	2480	cpm	soil	0.25
311344.8352	1959775.96	-64.779025	17.71707667	2530	cpm	soil	0.25
311344.2927	1959774.674	-64.77903	17.717065	2620	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
311342.8191	1959768.416	-64.77904333	17.71700833	2570	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311341.9038	1959765.104	-64.77905167	17.71697833	2460	cpm	soil	0.25
311340.6314	1959761.426	-64.77906333	17.716945	2500	cpm	soil	0.25
0*	0*	0*	0*	2500	cpm	soil	0.25
311338.6397	1959756.464	-64.77908167	17.7169	2420	cpm	soil	0.25
311338.0988	1959755.363	-64.77908667	17.71689	2460	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311336.8387	1959752.976	-64.77909833	17.71686833	2370	cpm	soil	0.25
311335.3912	1959749.485	-64.77911167	17.71683667	2320	cpm	soil	0.25
0*	0*	0*	0*	2360	cpm	soil	0.25
311333.0494	1959744.895	-64.77913333	17.716795	2290	cpm	soil	0.25
0*	0*	0*	0*	2350	cpm	soil	0.25
311331.0716	1959741.409	-64.77915167	17.71676333	2120	cpm	soil	0.25
311330.8914	1959741.042	-64.77915333	17.71676	2170	cpm	soil	0.25
311330.7059	1959740.121	-64.779155	17.71675167	2250	cpm	soil	0.25
311329.787	1959736.44	-64.77916333	17.71671833	2460	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311326.7241	1959730.381	-64.77919167	17.71666333	2710	cpm	soil	0.25
311326.1833	1959729.279	-64.77919667	17.71665333	2570	cpm	soil	0.25
311326.1659	1959727.435	-64.77919667	17.71663667	2110	cpm	soil	0.25
311328.1035	1959726.679	-64.77917833	17.71663	2060	cpm	soil	0.25
311331.2979	1959727.94	-64.77914833	17.71664167	2140	cpm	soil	0.25
311332.7349	1959730.324	-64.779135	17.71666333	1990	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
0*	0*	0*	0*	2080	cpm	soil	0.25
311336.1618	1959737.487	-64.77910333	17.71672833	2370	cpm	soil	0.25
311336.7027	1959738.588	-64.77909833	17.71673833	2350	cpm	soil	0.25
311337.7826	1959740.607	-64.77908833	17.71675667	2330	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311339.237	1959744.837	-64.779075	17.716795	2110	cpm	soil	0.25
311340.1558	1959748.518	-64.77906667	17.71682833	2340	cpm	soil	0.25
311340.6983	1959749.804	-64.77906167	17.71684	2320	cpm	soil	0.25
311341.7922	1959753.299	-64.77905167	17.71687167	2450	cpm	soil	0.25
311342.6988	1959755.688	-64.77904333	17.71689333	2530	cpm	soil	0.25
0*	0*	0*	0*	2490	cpm	soil	0.25
311343.7996	1959759.921	-64.77903333	17.71693167	2670	cpm	soil	0.25
311344.3474	1959761.76	-64.77902833	17.71694833	2470	cpm	soil	0.25
311345.0772	1959764.152	-64.77902167	17.71697	2410	cpm	soil	0.25
311345.6285	1959766.36	-64.77901667	17.71699	2380	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311347.0777	1959770.036	-64.77900333	17.71702333	2420	cpm	soil	0.25
311347.8092	1959772.612	-64.77899667	17.71704667	2460	cpm	soil	0.25
0*	0*	0*	0*	2660	cpm	soil	0.25
311349.8114	1959778.681	-64.77897833	17.71710167	2640	cpm	soil	0.25
311350.5447	1959781.441	-64.77897167	17.71712667	2710	cpm	soil	0.25
311351.6299	1959784.013	-64.77896167	17.71715	2610	cpm	soil	0.25
311352.5364	1959786.403	-64.77895333	17.71717167	2470	cpm	soil	0.25
311353.268	1959788.979	-64.77894667	17.717195	2540	cpm	soil	0.25
311353.8088	1959790.08	-64.77894167	17.717205	2560	cpm	soil	0.25
311354.9062	1959793.944	-64.77893167	17.71724	2500	cpm	soil	0.25
0*	0*	0*	0*	2580	cpm	soil	0.25
311356.5426	1959798.725	-64.77891667	17.71728333	2220	cpm	soil	0.25
311357.0956	1959801.118	-64.77891167	17.717305	2230	cpm	soil	0.25
311357.4596	1959802.221	-64.77890833	17.717315	2210	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311358.55	1959805.347	-64.77889833	17.71734333	2080	cpm	soil	0.25
311358.914	1959806.451	-64.778895	17.71735333	2030	cpm	soil	0.25
311359.8258	1959809.394	-64.77888667	17.71738	2000	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311361.7862	1959811.035	-64.77886833	17.717395	1950	cpm	soil	0.25
311362.3026	1959809.555	-64.77886333	17.71738167	2040	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311361.7287	1959804.948	-64.77886833	17.71734	2000	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311360.4441	1959799.98	-64.77888	17.717295	2000	cpm	soil	0.25
311359.9033	1959798.878	-64.778885	17.717285	2140	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311357.5388	1959791.89	-64.77890667	17.71722167	1990	cpm	soil	0.25
311356.62	1959788.209	-64.778915	17.71718833	1900	cpm	soil	0.25
311355.8867	1959785.449	-64.77892167	17.71716333	1930	cpm	soil	0.25
311354.8016	1959782.876	-64.77893167	17.71714	1950	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
311353.6938	1959777.906	-64.77894167	17.717095	2030	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
311352.4092	1959772.937	-64.77895333	17.71705	2240	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
311351.3153	1959769.443	-64.77896333	17.71701833	2290	cpm	soil	0.25
311350.3983	1959765.946	-64.77897167	17.71698667	2380	cpm	soil	0.25
311349.6685	1959763.555	-64.77897833	17.716965	2260	cpm	soil	0.25
311349.3044	1959762.451	-64.77898167	17.716955	2230	cpm	soil	0.25
311348.5746	1959760.06	-64.77898833	17.71693333	2250	cpm	soil	0.25
311347.6558	1959756.379	-64.77899667	17.7169	2170	cpm	soil	0.25
311347.101	1959753.802	-64.77900167	17.71687667	2170	cpm	soil	0.25
311346.5585	1959752.516	-64.77900667	17.716865	2170	cpm	soil	0.25
311346.1944	1959751.412	-64.77901	17.716855	2190	cpm	soil	0.25
311344.7453	1959747.736	-64.77902333	17.71682167	2220	cpm	soil	0.25
311344.0155	1959745.345	-64.77903	17.7168	2180	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311342.7378	1959741.114	-64.77904167	17.71676167	2250	cpm	soil	0.25
311341.8312	1959738.724	-64.77905	17.71674	2090	cpm	soil	0.25
311341.2922	1959737.807	-64.779055	17.71673167	2180	cpm	soil	0.25
311339.8447	1959734.316	-64.77906833	17.7167	2240	cpm	soil	0.25
311339.479	1959733.028	-64.77907167	17.71668833	2330	cpm	soil	0.25
311337.6797	1959729.724	-64.77908833	17.71665833	2390	cpm	soil	0.25
311337.1371	1959728.438	-64.77909333	17.71664667	2230	cpm	soil	0.25
311337.4628	1959725.483	-64.77909	17.71662	2040	cpm	soil	0.25
311338.3398	1959724.737	-64.77908167	17.71661333	2150	cpm	soil	0.25
311341.8738	1959724.519	-64.77904833	17.71661167	2090	cpm	soil	0.25
311343.1287	1959726.352	-64.77903667	17.71662833	2040	cpm	soil	0.25
311343.6713	1959727.638	-64.77903167	17.71664	1950	cpm	soil	0.25
311344.7634	1959730.949	-64.77902167	17.71667	2010	cpm	soil	0.25
311345.1361	1959732.974	-64.77901833	17.71668833	1970	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311345.866	1959735.366	-64.77901167	17.71671	2170	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
311347.6757	1959739.776	-64.778995	17.71675	1950	cpm	soil	0.25
311348.402	1959741.798	-64.77898833	17.71676833	1940	cpm	soil	0.25
311348.955	1959744.191	-64.77898333	17.71679	2110	cpm	soil	0.25
311349.5098	1959746.769	-64.77897833	17.71681333	2150	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
311350.2588	1959751.189	-64.77897167	17.71685333	2200	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
311351.3596	1959755.422	-64.77896167	17.71689167	2160	cpm	soil	0.25
311352.6302	1959758.915	-64.77895	17.71692333	2080	cpm	soil	0.25
311352.996	1959760.203	-64.77894667	17.716935	2000	cpm	soil	0.25
311353.9009	1959762.408	-64.77893833	17.716955	2130	cpm	soil	0.25
311355.1715	1959765.901	-64.77892667	17.71698667	2190	cpm	soil	0.25
311355.5478	1959768.296	-64.77892333	17.71700833	2190	cpm	soil	0.25
311355.735	1959769.401	-64.77892167	17.71701833	2200	cpm	soil	0.25
311356.1112	1959771.795	-64.77891833	17.71704	2310	cpm	soil	0.25
311356.4945	1959774.928	-64.778915	17.71706833	2280	cpm	soil	0.25
311356.673	1959775.111	-64.77891333	17.71707	2240	cpm	soil	0.25
311356.673	1959775.111	-64.77891333	17.71707	2050	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
311357.9488	1959779.157	-64.77890167	17.71710667	1920	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
311359.2299	1959783.757	-64.77889	17.71714833	1650	cpm	soil	0.25
0*	0*	0*	0*	1620	cpm	soil	0.25
311361.5665	1959787.793	-64.77886833	17.717185	1580	cpm	soil	0.25
311362.9738	1959787.042	-64.778855	17.71717833	1570	cpm	soil	0.25
311362.426	1959785.203	-64.77886	17.71716167	1600	cpm	soil	0.25
311361.698	1959782.996	-64.77886667	17.71714167	1560	cpm	soil	0.25
0*	0*	0*	0*	1540	cpm	soil	0.25
311359.708	1959778.218	-64.778885	17.71709833	1500	cpm	soil	0.25
311358.9817	1959776.196	-64.77889167	17.71708	1430	cpm	soil	0.25
0*	0*	0*	0*	1460	cpm	soil	0.25
311357.6971	1959771.227	-64.77890333	17.717035	1490	cpm	soil	0.25
311357.4994	1959769.015	-64.778905	17.717015	1590	cpm	soil	0.25
311356.7696	1959766.624	-64.77891167	17.71699333	1560	cpm	soil	0.25
311355.863	1959764.234	-64.77892	17.71697167	1670	cpm	soil	0.25
0*	0*	0*	0*	1750	cpm	soil	0.25
0*	0*	0*	0*	1820	cpm	soil	0.25
311354.3789	1959756.869	-64.77893333	17.716905	1790	cpm	soil	0.25
311353.8294	1959754.845	-64.77893833	17.71688667	1730	cpm	soil	0.25
311353.6422	1959753.74	-64.77894	17.71687667	1810	cpm	soil	0.25
311352.375	1959750.616	-64.77895167	17.71684833	1780	cpm	soil	0.25
311352.0092	1959749.328	-64.778955	17.71683667	1910	cpm	soil	0.25
311351.0904	1959745.647	-64.77896333	17.71680333	2000	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311349.8093	1959741.047	-64.778975	17.71676167	2000	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311349.4348	1959738.837	-64.77897833	17.71674167	1840	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
311347.8002	1959734.241	-64.77899333	17.7167	1790	cpm	soil	0.25
311346.8936	1959731.851	-64.77900167	17.71667833	1730	cpm	soil	0.25
311345.987	1959729.461	-64.77901	17.71665667	1670	cpm	soil	0.25
0*	0*	0*	0*	1730	cpm	soil	0.25
311344.5343	1959725.416	-64.77902333	17.71662	1770	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
311345.217	1959722.827	-64.77901667	17.71659667	1830	cpm	soil	0.25
311348.4044	1959723.351	-64.77898667	17.71660167	1770	cpm	soil	0.25
311349.4704	1959723.894	-64.77897667	17.71660667	1700	cpm	soil	0.25
311351.793	1959726.455	-64.778955	17.71663	1580	cpm	soil	0.25
311352.5072	1959727.186	-64.77894833	17.71663667	1580	cpm	soil	0.25
311353.5871	1959729.205	-64.77893833	17.716655	1630	cpm	soil	0.25
311353.9494	1959730.124	-64.778935	17.71666333	1670	cpm	soil	0.25
311355.0327	1959732.512	-64.778925	17.716685	1650	cpm	soil	0.25
311355.9359	1959734.533	-64.77891667	17.71670333	1610	cpm	soil	0.25
311356.2999	1959735.636	-64.77891333	17.71671333	1620	cpm	soil	0.25
311357.567	1959738.76	-64.77890167	17.71674167	1590	cpm	soil	0.25
311358.2951	1959740.967	-64.778895	17.71676167	1560	cpm	soil	0.25
311358.4824	1959742.072	-64.77889333	17.71677167	1460	cpm	soil	0.25
0*	0*	0*	0*	1490	cpm	soil	0.25
311358.7114	1959747.604	-64.77889167	17.71682167	1490	cpm	soil	0.25
311359.0859	1959749.814	-64.77888833	17.71684167	1460	cpm	soil	0.25
311359.2836	1959752.026	-64.77888667	17.71686167	1380	cpm	soil	0.25
311359.6599	1959754.421	-64.77888333	17.71688333	1310	cpm	soil	0.25
311360.2094	1959756.445	-64.77887833	17.71690167	1360	cpm	soil	0.25
311360.4054	1959758.472	-64.77887667	17.71692	1370	cpm	soil	0.25
311360.6048	1959760.869	-64.778875	17.71694167	1360	cpm	soil	0.25
0*	0*	0*	0*	1360	cpm	soil	0.25
311361.002	1959765.477	-64.77887167	17.71698333	1330	cpm	soil	0.25
311361.1997	1959767.689	-64.77887	17.71700333	1310	cpm	soil	0.25
311361.3974	1959769.901	-64.77886833	17.71702333	1350	cpm	soil	0.25
0*	0*	0*	0*	1380	cpm	soil	0.25
0*	0*	0*	0*	1390	cpm	soil	0.25
311360.0389	1959775.817	-64.77888167	17.71707667	1350	cpm	soil	0.25
0*	0*	0*	0*	1290	cpm	soil	0.25
311356.8724	1959777.507	-64.77891167	17.71709167	1370	cpm	soil	0.25
311352.8151	1959778.468	-64.77895	17.7171	1600	cpm	soil	0.25
311349.99	1959778.863	-64.77897667	17.71710333	1810	cpm	soil	0.25
311348.7542	1959779.06	-64.77898833	17.717105	2020	cpm	soil	0.25
311345.0417	1959779.095	-64.77902333	17.717105	2090	cpm	soil	0.25
311342.7417	1959778.932	-64.779045	17.71710333	2560	cpm	soil	0.25
311340.6133	1959778.214	-64.779065	17.71709667	2660	cpm	soil	0.25
0*	0*	0*	0*	2480	cpm	soil	0.25
311334.9317	1959775.685	-64.77911833	17.71707333	2320	cpm	soil	0.25
311330.1393	1959773.701	-64.77916333	17.717055	2200	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311326.7664	1959772.257	-64.779195	17.71704167	2120	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311321.7867	1959769.168	-64.77924167	17.71701333	2360	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
311318.5819	1959766.8	-64.77927167	17.71699167	2280	cpm	soil	0.25
311315.7254	1959763.876	-64.77929833	17.716965	2290	cpm	soil	0.25
311313.9401	1959762.048	-64.779315	17.71694833	2200	cpm	soil	0.25
0*	0*	0*	0*	2100	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
311309.4768	1959757.478	-64.77935667	17.71690667	1990	cpm	soil	0.25
311306.6238	1959754.922	-64.77938333	17.71688333	1960	cpm	soil	0.25
311305.7311	1959754.008	-64.77939167	17.716875	2150	cpm	soil	0.25
311302.8764	1959751.268	-64.77941833	17.71685	2190	cpm	soil	0.25
311301.9855	1959750.539	-64.77942667	17.71684333	2100	cpm	soil	0.25
311299.129	1959747.614	-64.77945333	17.71681667	2220	cpm	soil	0.25
311296.815	1959745.976	-64.779475	17.71680167	2140	cpm	soil	0.25
311295.3833	1959744.144	-64.77948833	17.716785	2260	cpm	soil	0.25
311295.2013	1959743.593	-64.77949	17.71678	2280	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
311294.1283	1959742.311	-64.7795	17.71676833	2410	cpm	soil	0.25
0*	0*	0*	0*	2300	cpm	soil	0.25
311289.5022	1959739.219	-64.77954333	17.71674	2280	cpm	soil	0.25
311288.6166	1959739.043	-64.77955167	17.71673833	2330	cpm	soil	0.25
311288.4398	1959739.045	-64.77955333	17.71673833	2230	cpm	soil	0.25
311288.4398	1959739.045	-64.77955333	17.71673833	2050	cpm	soil	0.25
311288.4398	1959739.045	-64.77955333	17.71673833	1810	cpm	soil	0.25
311288.4398	1959739.045	-64.77955333	17.71673833	1900	cpm	soil	0.25
311287.7361	1959739.42	-64.77956	17.71674167	2040	cpm	soil	0.25
311285.8194	1959742.39	-64.77957833	17.71676833	2080	cpm	soil	0.25
311285.4762	1959743.5	-64.77958167	17.71677833	2100	cpm	soil	0.25
311284.6063	1959744.984	-64.77959	17.71679167	2170	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
311282.4656	1959742.975	-64.77961	17.71677333	2220	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
311283.1222	1959737.619	-64.77960333	17.716725	2360	cpm	soil	0.25
311283.8084	1959735.399	-64.77959667	17.716705	2520	cpm	soil	0.25
0*	0*	0*	0*	2440	cpm	soil	0.25
311285.1913	1959732.065	-64.77958333	17.716675	2390	cpm	soil	0.25
311285.8636	1959728.369	-64.77957667	17.71664167	2290	cpm	soil	0.25
311286.205	1959727.075	-64.77957333	17.71663	2390	cpm	soil	0.25
311287.7542	1959722.633	-64.77955833	17.71659	2390	cpm	soil	0.25
311287.9275	1959722.262	-64.77955667	17.71658667	2410	cpm	soil	0.25
311288.6155	1959720.226	-64.77955	17.71656833	2300	cpm	soil	0.25
311288.9586	1959719.116	-64.77954667	17.71655833	2170	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311290.3327	1959714.86	-64.77953333	17.71652	2230	cpm	soil	0.25
311290.6776	1959713.935	-64.77953	17.71651167	2270	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311290.8526	1959713.748	-64.77952833	17.71651	2310	cpm	soil	0.25
0*	0*	0*	0*	2370	cpm	soil	0.25
311291.5284	1959710.421	-64.77952167	17.71648	2380	cpm	soil	0.25
311292.2129	1959708.017	-64.779515	17.71645833	2460	cpm	soil	0.25
0*	0*	0*	0*	2530	cpm	soil	0.25
311293.7604	1959703.39	-64.7795	17.71641667	2510	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25
311295.4829	1959698.577	-64.77948333	17.71637333	2360	cpm	soil	0.25
311295.8243	1959697.283	-64.77948	17.71636167	2380	cpm	soil	0.25
311296.8501	1959693.584	-64.77947	17.71632833	2570	cpm	soil	0.25
0*	0*	0*	0*	2350	cpm	soil	0.25
311298.044	1959688.96	-64.77945833	17.71628667	2280	cpm	soil	0.25
0*	0*	0*	0*	2250	cpm	soil	0.25
311296.9397	1959684.359	-64.77946833	17.716245	2310	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25
311293.0486	1959684.211	-64.779505	17.71624333	2140	cpm	soil	0.25
311291.6553	1959686.438	-64.77951833	17.71626333	2140	cpm	soil	0.25
311291.1354	1959687.55	-64.77952333	17.71627333	2200	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
311289.4355	1959694.761	-64.77954	17.71633833	2060	cpm	soil	0.25
311288.9226	1959696.61	-64.779545	17.716355	2130	cpm	soil	0.25
0*	0*	0*	0*	2030	cpm	soil	0.25
311288.7493	1959696.981	-64.77954667	17.71635833	1970	cpm	soil	0.25
0*	0*	0*	0*	1930	cpm	soil	0.25
311287.3646	1959700.13	-64.77956	17.71638667	2000	cpm	soil	0.25
311286.6802	1959702.535	-64.77956667	17.71640833	1880	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
311284.4447	1959709.197	-64.77958833	17.71646833	1950	cpm	soil	0.25
311283.7585	1959711.417	-64.779595	17.71648833	1970	cpm	soil	0.25
311283.4258	1959713.634	-64.77959833	17.71650833	1920	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
311280.8281	1959719.378	-64.77962333	17.71656	2250	cpm	soil	0.25
311280.3204	1959721.781	-64.77962833	17.71658167	2220	cpm	soil	0.25
311279.4556	1959723.818	-64.77963667	17.7166	2100	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
0*	0*	0*	0*	1960	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
311276.3554	1959732.518	-64.77966667	17.71667833	2030	cpm	soil	0.25
311275.846	1959734.736	-64.77967167	17.71669833	2100	cpm	soil	0.25
311275.3261	1959735.848	-64.77967667	17.71670833	2250	cpm	soil	0.25
311274.2985	1959739.363	-64.77968667	17.71674	2180	cpm	soil	0.25
311273.6141	1959741.768	-64.77969333	17.71676167	2120	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
311272.5847	1959745.098	-64.77970333	17.71679167	1990	cpm	soil	0.25
311271.3786	1959748.43	-64.779715	17.71682167	1850	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311271.0355	1959749.54	-64.77971833	17.71683167	1900	cpm	soil	0.25
311269.6491	1959752.505	-64.77973167	17.71685833	1950	cpm	soil	0.25
311267.8935	1959753.813	-64.77974833	17.71687	2180	cpm	soil	0.25
311265.9662	1959755.676	-64.77976667	17.71688667	2310	cpm	soil	0.25
311265.2678	1959756.605	-64.77977333	17.716895	2350	cpm	soil	0.25
0*	0*	0*	0*	2410	cpm	soil	0.25
0*	0*	0*	0*	2510	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
311260.783	1959768.454	-64.77981667	17.71700167	2170	cpm	soil	0.25
311260.4643	1959772.146	-64.77982	17.717035	2010	cpm	soil	0.25
311260.4765	1959773.437	-64.77982	17.71704667	2080	cpm	soil	0.25
311259.9828	1959777.316	-64.779825	17.71708167	2230	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311258.255	1959781.575	-64.77984167	17.71712	2300	cpm	soil	0.25
311257.3746	1959781.953	-64.77985	17.71712333	1940	cpm	soil	0.25
311255.7661	1959780.123	-64.779865	17.71710667	1790	cpm	soil	0.25
0*	0*	0*	0*	1690	cpm	soil	0.25
311255.9045	1959776.063	-64.77986333	17.71707	1590	cpm	soil	0.25
311256.0481	1959772.557	-64.77986167	17.71703833	1440	cpm	soil	0.25
0*	0*	0*	0*	1300	cpm	soil	0.25
311256.5506	1959769.601	-64.77985667	17.71701167	1280	cpm	soil	0.25
311256.8954	1959768.675	-64.77985333	17.71700333	1300	cpm	soil	0.25
311256.8954	1959768.675	-64.77985333	17.71700333	1270	cpm	soil	0.25
311256.8954	1959768.675	-64.77985333	17.71700333	1290	cpm	soil	0.25
311257.0617	1959767.566	-64.77985167	17.71699333	1260	cpm	soil	0.25
311257.5677	1959764.979	-64.77984667	17.71697	1310	cpm	soil	0.25
311258.2522	1959762.574	-64.77984	17.71694833	1260	cpm	soil	0.25
311259.1117	1959759.983	-64.77983167	17.716925	1270	cpm	soil	0.25
311259.6176	1959757.396	-64.77982667	17.71690167	1300	cpm	soil	0.25
311259.9468	1959754.81	-64.77982333	17.71687833	1280	cpm	soil	0.25
311260.6312	1959752.406	-64.77981667	17.71685667	1280	cpm	soil	0.25
0*	0*	0*	0*	1260	cpm	soil	0.25
311261.3174	1959750.185	-64.77981	17.71683667	1290	cpm	soil	0.25
311262.5271	1959747.222	-64.77979833	17.71681	1320	cpm	soil	0.25
311263.7332	1959743.89	-64.77978667	17.71678	1420	cpm	soil	0.25
311264.2409	1959741.487	-64.77978167	17.71675833	1410	cpm	soil	0.25
0*	0*	0*	0*	1470	cpm	soil	0.25
311266.3082	1959735.749	-64.77976167	17.71670667	1530	cpm	soil	0.25
0*	0*	0*	0*	1570	cpm	soil	0.25
311267.8714	1959732.782	-64.77974667	17.71668	1510	cpm	soil	0.25
0*	0*	0*	0*	1550	cpm	soil	0.25
311269.0618	1959727.79	-64.779735	17.716635	1670	cpm	soil	0.25
0*	0*	0*	0*	1740	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
0*	0*	0*	0*	1840	cpm	soil	0.25
311272.3144	1959716.506	-64.77970333	17.71653333	1720	cpm	soil	0.25
311273.0041	1959714.655	-64.77969667	17.71651667	1880	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311273.5153	1959712.621	-64.77969167	17.71649833	1890	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
311274.8895	1959708.365	-64.77967833	17.71646	1850	cpm	soil	0.25
311275.5774	1959706.329	-64.77967167	17.71644167	1800	cpm	soil	0.25
0*	0*	0*	0*	1890	cpm	soil	0.25
311276.7748	1959702.075	-64.77966	17.71640333	1880	cpm	soil	0.25
311277.2947	1959700.963	-64.779655	17.71639333	1870	cpm	soil	0.25
311278.3223	1959697.448	-64.779645	17.71636167	1970	cpm	soil	0.25
311278.8317	1959695.23	-64.77964	17.71634167	2030	cpm	soil	0.25
311279.5145	1959692.641	-64.77963333	17.71631833	2160	cpm	soil	0.25
311280.0344	1959691.529	-64.77962833	17.71630833	2260	cpm	soil	0.25
311281.0654	1959688.383	-64.77961833	17.71628	2300	cpm	soil	0.25
311281.5749	1959686.164	-64.77961333	17.71626	2300	cpm	soil	0.25
0*	0*	0*	0*	2270	cpm	soil	0.25
311281.533	1959681.737	-64.77961333	17.71622	2300	cpm	soil	0.25
311279.5814	1959681.018	-64.77963167	17.71621333	2130	cpm	soil	0.25
311277.6489	1959682.328	-64.77965	17.716225	2230	cpm	soil	0.25
311276.091	1959685.847	-64.779665	17.71625667	2310	cpm	soil	0.25
311275.228	1959688.069	-64.77967333	17.71627667	2200	cpm	soil	0.25
311274.7098	1959689.366	-64.77967833	17.71628833	2270	cpm	soil	0.25
0*	0*	0*	0*	2140	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2250	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2180	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2050	cpm	soil	0.25
0*	0*	0*	0*	2130	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2190	cpm	soil	0.25
311273.67	1959691.589	-64.77968833	17.71630833	2050	cpm	soil	0.25
311272.9786	1959693.256	-64.779695	17.71632333	2100	cpm	soil	0.25
311272.4709	1959695.659	-64.7797	17.716345	2050	cpm	soil	0.25
311271.4311	1959697.882	-64.77971	17.716365	2190	cpm	soil	0.25
311270.3878	1959699.737	-64.77972	17.71638167	2160	cpm	soil	0.25
311269.8662	1959700.664	-64.779725	17.71639	2110	cpm	soil	0.25
0*	0*	0*	0*	2240	cpm	soil	0.25
311267.6168	1959705.851	-64.77974667	17.71643667	2120	cpm	soil	0.25
311267.1056	1959707.885	-64.77975167	17.716455	2090	cpm	soil	0.25
0*	0*	0*	0*	1910	cpm	soil	0.25
0*	0*	0*	0*	1880	cpm	soil	0.25
311265.0487	1959714.73	-64.77977167	17.71651667	1980	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311263.8478	1959718.616	-64.77978333	17.71655167	2380	cpm	soil	0.25
311263.1616	1959720.836	-64.77979	17.71657167	2330	cpm	soil	0.25
311262.4736	1959722.872	-64.77979667	17.71659	2130	cpm	soil	0.25
311261.952	1959723.799	-64.77980167	17.71659833	2060	cpm	soil	0.25
311261.2605	1959725.466	-64.77980833	17.71661333	2210	cpm	soil	0.25
0*	0*	0*	0*	2310	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
0*	0*	0*	0*	2450	cpm	soil	0.25
311258.5052	1959733.24	-64.779835	17.71668333	2340	cpm	soil	0.25
311257.6422	1959735.462	-64.77984333	17.71670333	2220	cpm	soil	0.25
311256.7792	1959737.684	-64.77985167	17.71672333	2180	cpm	soil	0.25
0*	0*	0*	0*	1990	cpm	soil	0.25
311255.3963	1959741.017	-64.779865	17.71675333	2000	cpm	soil	0.25
0*	0*	0*	0*	2070	cpm	soil	0.25
311253.1504	1959746.573	-64.77988667	17.71680333	2140	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311251.2423	1959750.465	-64.779905	17.71683833	1810	cpm	soil	0.25
0*	0*	0*	0*	1700	cpm	soil	0.25
311249.6861	1959754.169	-64.77992	17.71687167	1670	cpm	soil	0.25
0*	0*	0*	0*	1520	cpm	soil	0.25
311248.473	1959756.763	-64.77993167	17.716895	1450	cpm	soil	0.25
311247.7851	1959758.799	-64.77993833	17.71691333	1420	cpm	soil	0.25
0*	0*	0*	0*	1460	cpm	soil	0.25
311246.936	1959762.497	-64.77994667	17.71694667	1430	cpm	soil	0.25
311246.4284	1959764.9	-64.77995167	17.71696833	1250	cpm	soil	0.25
311245.7474	1959767.673	-64.77995833	17.71699333	1200	cpm	soil	0.25
311245.7509	1959768.042	-64.77995833	17.71699667	1150	cpm	soil	0.25
311245.4043	1959768.784	-64.77996167	17.71700333	1170	cpm	soil	0.25
311245.2362	1959769.708	-64.77996333	17.71701167	1140	cpm	soil	0.25
311244.2034	1959772.669	-64.77997333	17.71703833	1150	cpm	soil	0.25
0*	0*	0*	0*	1170	cpm	soil	0.25
311243.5207	1959775.258	-64.77998	17.71706167	1210	cpm	soil	0.25
311242.6646	1959778.218	-64.77998833	17.71708833	1220	cpm	soil	0.25
311242.3198	1959779.143	-64.77999167	17.71709667	1230	cpm	soil	0.25
311241.4533	1959780.996	-64.78	17.71711333	1220	cpm	soil	0.25
311240.9369	1959782.477	-64.780005	17.71712667	1200	cpm	soil	0.25
311240.4187	1959783.773	-64.78001	17.71713833	1180	cpm	soil	0.25
0*	0*	0*	0*	1160	cpm	soil	0.25
0*	0*	0*	0*	1150	cpm	soil	0.25
311238.88	1959789.322	-64.780025	17.71718833	1140	cpm	soil	0.25
0*	0*	0*	0*	1120	cpm	soil	0.25
0*	0*	0*	0*	1090	cpm	soil	0.25
311237.1505	1959793.397	-64.78004167	17.717225	1090	cpm	soil	0.25
311236.1072	1959795.252	-64.78005167	17.71724167	1110	cpm	soil	0.25
0*	0*	0*	0*	1130	cpm	soil	0.25
311234.0085	1959797.67	-64.78007167	17.71726333	1070	cpm	soil	0.25
311232.5855	1959796.761	-64.780085	17.717255	1100	cpm	soil	0.25
311231.5038	1959794.557	-64.780095	17.717235	1050	cpm	soil	0.25
311232.0202	1959793.077	-64.78009	17.71722167	1050	cpm	soil	0.25
311232.5401	1959791.965	-64.780085	17.71721167	1070	cpm	soil	0.25
311232.5366	1959791.596	-64.780085	17.71720833	1110	cpm	soil	0.25
311233.5816	1959789.926	-64.780075	17.71719333	1110	cpm	soil	0.25
311234.2678	1959787.706	-64.78006833	17.71717333	1140	cpm	soil	0.25
311234.4342	1959786.597	-64.78006667	17.71716333	1140	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311235.4617	1959783.082	-64.78005667	17.71713167	1130	cpm	soil	0.25
311235.6281	1959781.974	-64.780055	17.71712167	1220	cpm	soil	0.25
311236.6626	1959779.197	-64.780045	17.71709667	1240	cpm	soil	0.25
311237.8652	1959775.496	-64.78003333	17.71706333	1220	cpm	soil	0.25
311238.1996	1959773.464	-64.78003	17.717045	1260	cpm	soil	0.25
311239.0626	1959771.242	-64.78002167	17.717025	1260	cpm	soil	0.25
311239.5703	1959768.839	-64.78001667	17.71700333	1290	cpm	soil	0.25
311240.435	1959766.801	-64.78000833	17.716985	1380	cpm	soil	0.25
311241.3015	1959764.948	-64.78	17.71696833	1330	cpm	soil	0.25
311241.6377	1959763.1	-64.77999667	17.71695167	1270	cpm	soil	0.25
311241.972	1959761.068	-64.77999333	17.71693333	1250	cpm	soil	0.25
311242.835	1959758.846	-64.779985	17.71691333	1250	cpm	soil	0.25
311243.8748	1959756.622	-64.779975	17.71689333	1220	cpm	soil	0.25
311244.386	1959754.588	-64.77997	17.716875	1340	cpm	soil	0.25
311244.8972	1959752.554	-64.779965	17.71685667	1320	cpm	soil	0.25
311245.4084	1959750.52	-64.77996	17.71683833	1260	cpm	soil	0.25
311246.2696	1959748.114	-64.77995167	17.71681667	1270	cpm	soil	0.25
0*	0*	0*	0*	1350	cpm	soil	0.25
311247.6438	1959743.858	-64.77993833	17.71677833	1430	cpm	soil	0.25
311248.5085	1959741.82	-64.77993	17.71676	1590	cpm	soil	0.25
311248.8394	1959739.419	-64.77992667	17.71673833	1530	cpm	soil	0.25
311249.1738	1959737.387	-64.77992333	17.71672	1650	cpm	soil	0.25
311249.8635	1959735.535	-64.77991667	17.71670333	1800	cpm	soil	0.25
311250.3747	1959733.501	-64.77991167	17.716685	1990	cpm	soil	0.25
311250.7073	1959731.284	-64.77990833	17.716665	2080	cpm	soil	0.25
311251.215	1959728.881	-64.77990333	17.71664333	2260	cpm	soil	0.25
311251.9012	1959726.661	-64.77989667	17.71662333	2210	cpm	soil	0.25
311252.4107	1959724.443	-64.77989167	17.71660333	2350	cpm	soil	0.25
311253.1021	1959722.776	-64.779885	17.71658833	2240	cpm	soil	0.25
311253.0934	1959721.854	-64.779885	17.71658	2270	cpm	soil	0.25
311253.5941	1959718.713	-64.77988	17.71655167	2200	cpm	soil	0.25
311254.0913	1959715.203	-64.779875	17.71652	2400	cpm	soil	0.25
311254.2559	1959713.91	-64.77987333	17.71650833	2180	cpm	soil	0.25
311254.9404	1959711.505	-64.77986667	17.71648667	2240	cpm	soil	0.25
311255.6231	1959708.916	-64.77986	17.71646333	2290	cpm	soil	0.25
311255.6179	1959708.363	-64.77986	17.71645833	2270	cpm	soil	0.25
311256.1325	1959706.698	-64.779855	17.71644333	2190	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
311257.3387	1959703.366	-64.77984333	17.71641333	2180	cpm	soil	0.25
311258.3697	1959700.22	-64.77983333	17.716385	2230	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
311260.276	1959696.143	-64.779815	17.71634833	2140	cpm	soil	0.25
0*	0*	0*	0*	1970	cpm	soil	0.25
311261.4821	1959692.811	-64.77980333	17.71631833	2060	cpm	soil	0.25
311261.8148	1959690.594	-64.7798	17.71629833	2010	cpm	soil	0.25
311262.501	1959688.374	-64.77979333	17.71627833	1960	cpm	soil	0.25
311263.7071	1959685.042	-64.77978167	17.71624833	1990	cpm	soil	0.25

Table 5-6: Gamma Count Rate Measurements Collected Inside the Pedro Cruz Recreational Area Located in Matthews Charles							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (m)**
311264.2165	1959682.824	-64.77977667	17.71622833	1830	cpm	soil	0.25
311264.7277	1959680.789	-64.77977167	17.71621	1790	cpm	soil	0.25
0*	0*	0*	0*	1670	cpm	soil	0.25
311266.4642	1959677.452	-64.779755	17.71618	1630	cpm	soil	0.25
311266.4642	1959677.452	-64.779755	17.71618	1720	cpm	soil	0.25
311266.4642	1959677.452	-64.779755	17.71618	1700	cpm	soil	0.25
				Minimum =	**1050**		
				Maximum =	**2770**		
				Median =	**2130**		
				Arithmetic mean =	**2045**		
				One Sigma =	**374**		
				Two Sigma =	**747**		

Average Background =	**5193.75**	**cpm**		
Background +/- One Sigma	**4597**	**to**	**5790**	**cpm**
Background +/- Two Sigma	**4000**	**to**	**6387**	**cpm**

0* - GPS data not available

Table 5-7

Gamma Count Rate Measurements Collected Along the Northern Fence of the Site

Table 5-7: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311359.4356	1959487.484	-64.77886167	17.71447167	2740	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2780	cpm	soil	0.25
0*	0*	0*	0*	2810	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2840	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2830	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2770	cpm	soil	0.25
311359.4356	1959487.484	-64.77886167	17.71447167	2850	cpm	soil	0.25
0*	0*	0*	0*	2850	cpm	soil	0.25
311359.2571	1959487.301	-64.77886333	17.71447	2780	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
311359.2571	1959487.301	-64.77886333	17.71447	2850	cpm	soil	0.25
311358.5499	1959487.308	-64.77887	17.71447	2800	cpm	soil	0.25
0*	0*	0*	0*	2750	cpm	soil	0.25
311358.5499	1959487.308	-64.77887	17.71447	2840	cpm	soil	0.25
311358.0196	1959487.313	-64.778875	17.71447	2840	cpm	soil	0.25
311356.0714	1959486.962	-64.77889333	17.71446667	2810	cpm	soil	0.25
311353.9464	1959486.614	-64.77891333	17.71446333	2830	cpm	soil	0.25
311352.1751	1959486.261	-64.77893	17.71446	2710	cpm	soil	0.25
311350.4037	1959485.909	-64.77894667	17.71445667	2550	cpm	soil	0.25
311348.4555	1959485.559	-64.778965	17.71445333	2480	cpm	soil	0.25
311346.3323	1959485.394	-64.778985	17.71445167	2360	cpm	soil	0.25
311344.3841	1959485.044	-64.77900333	17.71444833	2300	cpm	soil	0.25
0*	0*	0*	0*	2220	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311338.7182	1959484.175	-64.77905667	17.71444	2050	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
311334.4613	1959482.739	-64.77909667	17.71442667	1960	cpm	soil	0.25
0*	0*	0*	0*	1900	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
0*	0*	0*	0*	1870	cpm	soil	0.25
0*	0*	0*	0*	1980	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
0*	0*	0*	0*	2040	cpm	soil	0.25
311319.9279	1959479.003	-64.77923333	17.71439167	2070	cpm	soil	0.25
311317.9763	1959478.283	-64.77925167	17.714385	2050	cpm	soil	0.25
311315.671	1959477.567	-64.77927333	17.71437833	2070	cpm	soil	0.25
311314.9621	1959477.389	-64.77928	17.71437667	2110	cpm	soil	0.25
311312.1265	1959476.678	-64.77930667	17.71437	2190	cpm	soil	0.25
311310.0016	1959476.329	-64.77932667	17.71436667	2270	cpm	soil	0.25
311308.2267	1959475.608	-64.77934333	17.71436	2360	cpm	soil	0.25
311306.2785	1959475.258	-64.77936167	17.71435667	2370	cpm	soil	0.25
311304.6822	1959474.719	-64.77937667	17.71435167	2510	cpm	soil	0.25

Table 5-7: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311303.2591	1959473.81	-64.77939	17.71434333	2480	cpm	soil	0.25
0*	0*	0*	0*	2530	cpm	soil	0.25
0*	0*	0*	0*	2600	cpm	soil	0.25
311297.5827	1959471.835	-64.77944333	17.714325	2700	cpm	soil	0.25
311295.6345	1959471.484	-64.77946167	17.71432167	2750	cpm	soil	0.25
311293.8614	1959470.947	-64.77947833	17.71431667	2780	cpm	soil	0.25
0*	0*	0*	0*	2730	cpm	soil	0.25
311290.3134	1959469.69	-64.77951167	17.714305	2680	cpm	soil	0.25
311288.1867	1959469.156	-64.77953167	17.7143	2730	cpm	soil	0.25
0*	0*	0*	0*	2770	cpm	soil	0.25
0*	0*	0*	0*	2740	cpm	soil	0.25
0*	0*	0*	0*	2860	cpm	soil	0.25
311280.3783	1959466.094	-64.779605	17.71427167	2820	cpm	soil	0.25
311278.4284	1959465.559	-64.77962333	17.71426667	2930	cpm	soil	0.25
311276.4785	1959465.024	-64.77964167	17.71426167	2920	cpm	soil	0.25
311274.7036	1959464.303	-64.77965833	17.714255	2960	cpm	soil	0.25
311272.7537	1959463.768	-64.77967667	17.71425	3010	cpm	soil	0.25
0*	0*	0*	0*	3100	cpm	soil	0.25
311268.8538	1959462.698	-64.77971333	17.71424	3180	cpm	soil	0.25
311265.8414	1959461.988	-64.77974167	17.71423333	3170	cpm	soil	0.25
0*	0*	0*	0*	3190	cpm	soil	0.25
0*	0*	0*	0*	3190	cpm	soil	0.25
311259.9882	1959460.015	-64.77979667	17.714215	3090	cpm	soil	0.25
311258.0365	1959459.295	-64.779815	17.71420833	2950	cpm	soil	0.25
311257.1474	1959458.75	-64.77982333	17.71420333	2960	cpm	soil	0.25
311255.1957	1959458.031	-64.77984167	17.71419667	2920	cpm	soil	0.25
0*	0*	0*	0*	2930	cpm	soil	0.25
311250.4119	1959456.969	-64.77988667	17.71418667	2760	cpm	soil	0.25
0*	0*	0*	0*	2700	cpm	soil	0.25
311244.7372	1959455.178	-64.77994	17.71417	2640	cpm	soil	0.25
0*	0*	0*	0*	2640	cpm	soil	0.25
311241.5463	1959454.286	-64.77997	17.71416167	2540	cpm	soil	0.25
0*	0*	0*	0*	2430	cpm	soil	0.25
311237.4696	1959453.217	-64.78000833	17.71415167	2360	cpm	soil	0.25
0*	0*	0*	0*	2340	cpm	soil	0.25
311233.3912	1959451.965	-64.78004667	17.71414	2250	cpm	soil	0.25
0*	0*	0*	0*	2260	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
311227.0041	1959449.627	-64.78010667	17.71411833	2210	cpm	soil	0.25
0*	0*	0*	0*	2190	cpm	soil	0.25
311222.9293	1959448.743	-64.780145	17.71411	2150	cpm	soil	0.25
0*	0*	0*	0*	2160	cpm	soil	0.25

Table 5-7: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311218.8544	1959447.859	-64.78018333	17.71410167	2150	cpm	soil	0.25
311216.9044	1959447.324	-64.78020167	17.71409667	2110	cpm	soil	0.25
311216.017	1959446.963	-64.78021	17.71409333	2120	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
0*	0*	0*	0*	2090	cpm	soil	0.25
311210.3336	1959444.25	-64.78026333	17.71406833	2080	cpm	soil	0.25
311209.2693	1959443.891	-64.78027333	17.714065	2030	cpm	soil	0.25
311208.3819	1959443.531	-64.78028167	17.71406167	2010	cpm	soil	0.25
311206.2517	1959442.628	-64.78030167	17.71405333	1970	cpm	soil	0.25
311204.2983	1959441.724	-64.78032	17.714045	1980	cpm	soil	0.25
311202.7002	1959441.002	-64.780335	17.71403833	1990	cpm	soil	0.25
311201.4557	1959440.275	-64.78034667	17.71403167	1990	cpm	soil	0.25
311200.5683	1959439.915	-64.780355	17.71402833	2030	cpm	soil	0.25
311200.5683	1959439.915	-64.780355	17.71402833	2060	cpm	soil	0.25
311200.5683	1959439.915	-64.780355	17.71402833	2070	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311197.1901	1959437.918	-64.78038667	17.71401	2070	cpm	soil	0.25
0*	0*	0*	0*	2080	cpm	soil	0.25
311193.2815	1959435.925	-64.78042333	17.71399167	2060	cpm	soil	0.25
311191.6834	1959435.203	-64.78043833	17.713985	2060	cpm	soil	0.25
0*	0*	0*	0*	2060	cpm	soil	0.25
311188.1319	1959433.576	-64.78047167	17.71397	2130	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
311185.1143	1959432.313	-64.7805	17.71395833	2290	cpm	soil	0.25
311182.2734	1959431.049	-64.78052667	17.71394667	2260	cpm	soil	0.25
311180.1432	1959430.146	-64.78054667	17.71393833	2400	cpm	soil	0.25
311179.0755	1959429.418	-64.78055667	17.71393167	2410	cpm	soil	0.25
311176.0561	1959427.971	-64.780585	17.71391833	2480	cpm	soil	0.25
311175.3437	1959427.425	-64.78059167	17.71391333	2480	cpm	soil	0.25
311173.5653	1959426.334	-64.78060833	17.71390333	2460	cpm	soil	0.25
311171.0746	1959424.698	-64.78063167	17.71388833	2490	cpm	soil	0.25
311170.1854	1959424.153	-64.78064	17.71388333	2470	cpm	soil	0.25
311167.166	1959422.705	-64.78066833	17.71387	2440	cpm	soil	0.25
311165.5679	1959421.983	-64.78068333	17.71386333	2360	cpm	soil	0.25
311164.8572	1959421.62	-64.78069	17.71386	2250	cpm	soil	0.25
311160.231	1959418.528	-64.78073333	17.71383167	2210	cpm	soil	0.25
311158.6277	1959417.252	-64.78074833	17.71382	2150	cpm	soil	0.25
311157.7385	1959416.707	-64.78075667	17.713815	2050	cpm	soil	0.25
0*	0*	0*	0*	2000	cpm	soil	0.25
0*	0*	0*	0*	1940	cpm	soil	0.25
311151.1537	1959412.157	-64.78081833	17.71377333	1900	cpm	soil	0.25
311149.5538	1959411.25	-64.78083333	17.713765	1920	cpm	soil	0.25

Table 5-7: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311149.5538	1959411.25	-64.78083333	17.713765	1890	cpm	soil	0.25
0*	0*	0*	0*	1850	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
311148.8432	1959410.888	-64.78084	17.71376167	1790	cpm	soil	0.25
0*	0*	0*	0*	1830	cpm	soil	0.25
311146.3524	1959409.251	-64.78086333	17.71374667	1850	cpm	soil	0.25
311143.8616	1959407.614	-64.78088667	17.71373167	1830	cpm	soil	0.25
311142.078	1959405.971	-64.78090333	17.71371667	1790	cpm	soil	0.25
311141.1854	1959405.057	-64.78091167	17.71370833	1810	cpm	soil	0.25
311139.5785	1959403.412	-64.78092667	17.71369333	1800	cpm	soil	0.25
0*	0*	0*	0*	1810	cpm	soil	0.25
311135.1186	1959399.211	-64.78096833	17.713655	1850	cpm	soil	0.25
311133.5118	1959397.566	-64.78098333	17.71364	1920	cpm	soil	0.25
311131.7282	1959395.922	-64.781	17.713625	1960	cpm	soil	0.25
311130.3017	1959394.645	-64.78101333	17.71361333	2040	cpm	soil	0.25
0*	0*	0*	0*	2150	cpm	soil	0.25
311126.9182	1959392.094	-64.781045	17.71359	2160	cpm	soil	0.25
311125.3131	1959390.633	-64.78106	17.71357667	2200	cpm	soil	0.25
0*	0*	0*	0*	2330	cpm	soil	0.25
0*	0*	0*	0*	2320	cpm	soil	0.25
0*	0*	0*	0*	2360	cpm	soil	0.25
311118.7161	1959384.792	-64.78112167	17.71352333	2360	cpm	soil	0.25
311116.9342	1959383.333	-64.78113833	17.71351	2440	cpm	soil	0.25
311115.1506	1959381.69	-64.781155	17.713495	2530	cpm	soil	0.25
0*	0*	0*	0*	2570	cpm	soil	0.25
0*	0*	0*	0*	2680	cpm	soil	0.25
311111.0512	1959378.224	-64.78119333	17.71346333	2680	cpm	soil	0.25
311109.4462	1959376.763	-64.78120833	17.71345	2700	cpm	soil	0.25
0*	0*	0*	0*	2740	cpm	soil	0.25
311106.0487	1959372.737	-64.78124	17.71341333	2710	cpm	soil	0.25
311105.1578	1959372.007	-64.78124833	17.71340667	2700	cpm	soil	0.25
311102.6583	1959369.448	-64.78127167	17.71338333	2670	cpm	soil	0.25
0*	0*	0*	0*	2780	cpm	soil	0.25
311099.2713	1959366.529	-64.78130333	17.71335667	2700	cpm	soil	0.25
311097.1359	1959365.073	-64.78132333	17.71334333	2660	cpm	soil	0.25
311096.0682	1959364.345	-64.78133333	17.71333667	2570	cpm	soil	0.25
311094.2828	1959362.517	-64.78135	17.71332	2540	cpm	soil	0.25
311092.3137	1959359.953	-64.78136833	17.71329667	2470	cpm	soil	0.25
0*	0*	0*	0*	2390	cpm	soil	0.25
311090.7086	1959358.493	-64.78138333	17.71328333	2390	cpm	soil	0.25
311087.3199	1959355.389	-64.781415	17.713255	2320	cpm	soil	0.25
0*	0*	0*	0*	2290	cpm	soil	0.25

Table 5-7: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
311085.8881	1959353.557	-64.78142833	17.71323833	2270	cpm	soil	0.25
311085.7096	1959353.375	-64.78143	17.71323667	2250	cpm	soil	0.25
0*	0*	0*	0*	2200	cpm	soil	0.25
311083.035	1959351.002	-64.781455	17.713215	2140	cpm	soil	0.25
311080.7141	1959348.625	-64.78147667	17.71319333	2080	cpm	soil	0.25
311079.284	1959346.979	-64.78149	17.71317833	2030	cpm	soil	0.25
311078.0308	1959345.33	-64.78150167	17.71316333	2040	cpm	soil	0.25
311077.3166	1959344.599	-64.78150833	17.71315667	2060	cpm	soil	0.25
311075.7115	1959343.138	-64.78152333	17.71314333	2060	cpm	soil	0.25
311073.3888	1959340.578	-64.781545	17.71312	2040	cpm	soil	0.25
311072.3106	1959338.743	-64.781555	17.71310333	2040	cpm	soil	0.25
311071.5947	1959337.828	-64.78156167	17.713095	2020	cpm	soil	0.25
311069.8041	1959335.446	-64.78157833	17.71307333	2040	cpm	soil	0.25
311068.5526	1959333.982	-64.78159	17.71306	2030	cpm	soil	0.25
311067.1226	1959332.336	-64.78160333	17.713045	2030	cpm	soil	0.25
311065.3407	1959330.877	-64.78162	17.71303167	2090	cpm	soil	0.25
311064.448	1959329.963	-64.78162833	17.71302333	2130	cpm	soil	0.25
311062.4771	1959327.214	-64.78164667	17.71299833	2110	cpm	soil	0.25
311061.763	1959326.483	-64.78165333	17.71299167	2130	cpm	soil	0.25
311060.1579	1959325.022	-64.78166833	17.71297833	2130	cpm	soil	0.25
0*	0*	0*	0*	2110	cpm	soil	0.25
0*	0*	0*	0*	2170	cpm	soil	0.25
0*	0*	0*	0*	2120	cpm	soil	0.25
311056.2126	1959319.156	-64.781705	17.712925	2080	cpm	soil	0.25
311055.1362	1959317.506	-64.781715	17.71291	2100	cpm	soil	0.25
311052.6384	1959315.132	-64.78173833	17.71288833	2120	cpm	soil	0.25
311051.7475	1959314.402	-64.78174667	17.71288167	2110	cpm	soil	0.25
311050.671	1959312.752	-64.78175667	17.71286667	2160	cpm	soil	0.25
311048.8787	1959310.186	-64.78177333	17.71284333	2250	cpm	soil	0.25
311047.4504	1959308.724	-64.78178667	17.71283	2340	cpm	soil	0.25
311046.3739	1959307.074	-64.78179667	17.712815	2410	cpm	soil	0.25
0*	0*	0*	0*	2460	cpm	soil	0.25
311043.6923	1959303.963	-64.78182167	17.71278667	2510	cpm	soil	0.25
311042.9765	1959303.048	-64.78182833	17.71277833	2550	cpm	soil	0.25
311041.7232	1959301.399	-64.78184	17.71276333	2570	cpm	soil	0.25
311039.7575	1959299.204	-64.78185833	17.71274333	2520	cpm	soil	0.25
311038.6846	1959297.923	-64.78186833	17.71273167	2500	cpm	soil	0.25
0*	0*	0*	0*	2560	cpm	soil	0.25
311037.2353	1959294.247	-64.78188167	17.71269833	2640	cpm	soil	0.25
311035.8053	1959292.6	-64.781895	17.71268333	2640	cpm	soil	0.25
311034.5503	1959290.767	-64.78190667	17.71266667	2650	cpm	soil	0.25
311033.115	1959288.567	-64.78192	17.71264667	2740	cpm	soil	0.25

Table 5-7: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2770	cpm	soil	0.25
311030.787	1959285.453	-64.78194167	17.71261833	2780	cpm	soil	0.25
311030.4265	1959284.719	-64.781945	17.71261167	2750	cpm	soil	0.25
0*	0*	0*	0*	2700	cpm	soil	0.25
311028.2613	1959280.127	-64.781965	17.71257	2750	cpm	soil	0.25
0*	0*	0*	0*	2780	cpm	soil	0.25
311026.455	1959276.086	-64.78198167	17.71253333	2840	cpm	soil	0.25
0*	0*	0*	0*	2980	cpm	soil	0.25
311023.2361	1959272.242	-64.78201167	17.71249833	3100	cpm	soil	0.25
0*	0*	0*	0*	3200	cpm	soil	0.25
311020.7261	1959268.576	-64.782035	17.712465	3220	cpm	soil	0.25
311020.0032	1959266.923	-64.78204167	17.71245	3310	cpm	soil	0.25
0*	0*	0*	0*	3210	cpm	soil	0.25
311018.0253	1959263.437	-64.78206	17.71241833	3310	cpm	soil	0.25
0*	0*	0*	0*	3310	cpm	soil	0.25
0*	0*	0*	0*	3460	cpm	soil	0.25
311015.1512	1959258.667	-64.78208667	17.712375	3530	cpm	soil	0.25
0*	0*	0*	0*	3560	cpm	soil	0.25
311012.4575	1959254.265	-64.78211167	17.712335	3720	cpm	soil	0.25
311011.3793	1959252.431	-64.78212167	17.71231833	3860	cpm	soil	0.25
311010.301	1959250.596	-64.78213167	17.71230167	3870	cpm	soil	0.25
0*	0*	0*	0*	3770	cpm	soil	0.25
0*	0*	0*	0*	3860	cpm	soil	0.25
311009.944	1959250.231	-64.782135	17.71229833	3810	cpm	soil	0.25
311008.5157	1959248.768	-64.78214833	17.712285	3680	cpm	soil	0.25
311007.4374	1959246.934	-64.78215833	17.71226833	3640	cpm	soil	0.25
311006.7233	1959246.203	-64.782165	17.71226167	3680	cpm	soil	0.25
311004.5756	1959243.456	-64.782185	17.71223667	3810	cpm	soil	0.25
311003.3189	1959241.438	-64.78219667	17.71221833	4060	cpm	soil	0.25
311002.4157	1959239.418	-64.782205	17.7122	4020	cpm	soil	0.25
311001.3357	1959237.399	-64.782215	17.71218167	3790	cpm	soil	0.25
311000.7966	1959236.481	-64.78222	17.71217333	3520	cpm	soil	0.25
310999.1793	1959233.73	-64.782235	17.71214833	3440	cpm	soil	0.25
310998.1046	1959232.264	-64.782245	17.712135	3310	cpm	soil	0.25
0*	0*	0*	0*	3130	cpm	soil	0.25
310996.671	1959230.248	-64.78225833	17.71211667	3030	cpm	soil	0.25
310995.7783	1959229.334	-64.78226667	17.71210833	2960	cpm	soil	0.25
310994.5251	1959227.686	-64.78227833	17.71209333	2980	cpm	soil	0.25
310993.6254	1959226.034	-64.78228667	17.71207833	2920	cpm	soil	0.25
0*	0*	0*	0*	2910	cpm	soil	0.25
310991.8278	1959222.915	-64.78230333	17.71205	2940	cpm	soil	0.25
310990.9299	1959221.448	-64.78231167	17.71203667	3020	cpm	soil	0.25

Table 5-7: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310989.8569	1959220.166	-64.78232167	17.712025	3030	cpm	soil	0.25
310989.134	1959218.513	-64.78232833	17.71201	2970	cpm	soil	0.25
310988.9502	1959217.777	-64.78233	17.71200333	3020	cpm	soil	0.25
0*	0*	0*	0*	3040	cpm	soil	0.25
310986.0866	1959214.114	-64.78235667	17.71197	2960	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
0*	0*	0*	0*	3050	cpm	soil	0.25
310981.4516	1959210.1	-64.7824	17.71193333	3050	cpm	soil	0.25
310980.5519	1959208.448	-64.78240833	17.71191833	3060	cpm	soil	0.25
310980.0024	1959206.424	-64.78241333	17.7119	3040	cpm	soil	0.25
310979.4545	1959204.584	-64.78241833	17.71188333	3090	cpm	soil	0.25
310979.269	1959203.664	-64.78242	17.711875	3120	cpm	soil	0.25
310978.1925	1959202.014	-64.78243	17.71186	3170	cpm	soil	0.25
310977.2963	1959200.731	-64.78243833	17.71184833	3160	cpm	soil	0.25
310976.7555	1959199.629	-64.78244333	17.71183833	3130	cpm	soil	0.25
310975.679	1959197.979	-64.78245333	17.71182333	3110	cpm	soil	0.25
310974.4257	1959196.33	-64.782465	17.71180833	3160	cpm	soil	0.25
310973.1707	1959194.498	-64.78247667	17.71179167	3310	cpm	soil	0.25
310971.7389	1959192.666	-64.78249	17.711775	3210	cpm	soil	0.25
0*	0*	0*	0*	3240	cpm	soil	0.25
310969.9431	1959189.732	-64.78250667	17.71174833	3200	cpm	soil	0.25
310968.3327	1959187.718	-64.78252167	17.71173	3300	cpm	soil	0.25
310966.7119	1959184.597	-64.78253667	17.71170167	3340	cpm	soil	0.25
310966.1728	1959183.68	-64.78254167	17.71169333	3230	cpm	soil	0.25
310964.559	1959181.297	-64.78255667	17.71167167	3090	cpm	soil	0.25
310963.4807	1959179.462	-64.78256667	17.711655	3090	cpm	soil	0.25
310961.8721	1959177.633	-64.78258167	17.71163833	3010	cpm	soil	0.25
0*	0*	0*	0*	2970	cpm	soil	0.25
310959.0138	1959174.523	-64.78260833	17.71161	3060	cpm	soil	0.25
310958.4782	1959173.975	-64.78261333	17.711605	3100	cpm	soil	0.25
310957.2266	1959172.511	-64.782625	17.71159167	3070	cpm	soil	0.25
310955.4377	1959170.314	-64.78264167	17.71157167	3060	cpm	soil	0.25
310954.5398	1959168.847	-64.78265	17.71155833	3090	cpm	soil	0.25
310953.8239	1959167.931	-64.78265667	17.71155	3050	cpm	soil	0.25
310952.0333	1959165.55	-64.78267333	17.71152833	3110	cpm	soil	0.25
0*	0*	0*	0*	3160	cpm	soil	0.25
310949.8838	1959162.619	-64.78269333	17.71150167	3120	cpm	soil	0.25
310949.3482	1959162.071	-64.78269833	17.71149667	3090	cpm	soil	0.25
310948.0897	1959159.869	-64.78271	17.71147667	2990	cpm	soil	0.25
310947.5523	1959159.136	-64.782715	17.71147	3110	cpm	soil	0.25
310946.4759	1959157.486	-64.782725	17.711455	3100	cpm	soil	0.25
310945.7442	1959154.91	-64.78273167	17.71143167	3030	cpm	soil	0.25

Table 5-7: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
0*	0*	0*	0*	2970	cpm	soil	0.25
310944.484	1959152.524	-64.78274333	17.71141	2920	cpm	soil	0.25
310942.8701	1959150.141	-64.78275833	17.71138833	2890	cpm	soil	0.25
310942.5096	1959149.406	-64.78276167	17.71138167	2880	cpm	soil	0.25
310941.6046	1959147.201	-64.78277	17.71136167	2820	cpm	soil	0.25
310940.7067	1959145.734	-64.78277833	17.71134833	2900	cpm	soil	0.25
310940.1693	1959145.001	-64.78278333	17.71134167	2940	cpm	soil	0.25
0*	0*	0*	0*	2880	cpm	soil	0.25
0*	0*	0*	0*	2860	cpm	soil	0.25
310935.5116	1959138.588	-64.78282667	17.71128333	2920	cpm	soil	0.25
310934.2478	1959135.833	-64.78283833	17.71125833	2960	cpm	soil	0.25
310932.6445	1959134.557	-64.78285333	17.71124667	2880	cpm	soil	0.25
310930.8608	1959132.914	-64.78287	17.71123167	2910	cpm	soil	0.25
310929.7896	1959131.817	-64.78288	17.71122167	2930	cpm	soil	0.25
310929.7896	1959131.817	-64.78288	17.71122167	3020	cpm	soil	0.25
310927.8169	1959128.884	-64.78289833	17.711195	3020	cpm	soil	0.25
310926.7404	1959127.234	-64.78290833	17.71118	3000	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3010	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	2960	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3040	cpm	soil	0.25
0*	0*	0*	0*	2960	cpm	soil	0.25
0*	0*	0*	0*	2970	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3040	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3090	cpm	soil	0.25
310926.3834	1959126.868	-64.78291167	17.71117667	3070	cpm	soil	0.25
310926.2031	1959126.501	-64.78291333	17.71117333	3020	cpm	soil	0.25
0*	0*	0*	0*	3120	cpm	soil	0.25
310924.9446	1959124.299	-64.782925	17.71115333	2980	cpm	soil	0.25
310923.5093	1959122.099	-64.78293833	17.71113333	3040	cpm	soil	0.25
310922.0827	1959120.821	-64.78295167	17.71112167	3070	cpm	soil	0.25
310921.3703	1959120.274	-64.78295833	17.71111667	3000	cpm	soil	0.25
310920.1083	1959117.704	-64.78297	17.71109333	2920	cpm	soil	0.25
310919.0283	1959115.685	-64.78298	17.711075	2930	cpm	soil	0.25
310917.9518	1959114.035	-64.78299	17.71106	2990	cpm	soil	0.25
0*	0*	0*	0*	2990	cpm	soil	0.25
310916.1594	1959111.469	-64.78300667	17.71103667	3010	cpm	soil	0.25
310914.7189	1959108.715	-64.78302	17.71101167	3000	cpm	soil	0.25
310914.1798	1959107.798	-64.783025	17.71100333	3030	cpm	soil	0.25
310913.2783	1959105.962	-64.78303333	17.71098667	3090	cpm	soil	0.25
0*	0*	0*	0*	3100	cpm	soil	0.25
310911.2952	1959101.922	-64.78305167	17.71095	2970	cpm	soil	0.25
310910.9346	1959101.188	-64.783055	17.71094333	2890	cpm	soil	0.25

Table 5-7: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310910.9346	1959101.188	-64.783055	17.71094333	2810	cpm	soil	0.25
0*	0*	0*	0*	2830	cpm	soil	0.25
310910.7543	1959100.82	-64.78305667	17.71094	2870	cpm	soil	0.25
310910.7543	1959100.82	-64.78305667	17.71094	2900	cpm	soil	0.25
310910.7543	1959100.82	-64.78305667	17.71094	3000	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
310910.2047	1959098.796	-64.78306167	17.71092167	3010	cpm	soil	0.25
0*	0*	0*	0*	3030	cpm	soil	0.25
310908.927	1959094.565	-64.78307333	17.71088333	3070	cpm	soil	0.25
310908.0256	1959092.729	-64.78308167	17.71086667	3020	cpm	soil	0.25
310907.4829	1959091.443	-64.78308667	17.710855	3040	cpm	soil	0.25
310907.1259	1959091.077	-64.78309	17.71085167	3110	cpm	soil	0.25
0*	0*	0*	0*	3110	cpm	soil	0.25
0*	0*	0*	0*	3060	cpm	soil	0.25
310906.0267	1959087.029	-64.7831	17.710815	3130	cpm	soil	0.25
310905.1252	1959085.193	-64.78310833	17.71079833	3140	cpm	soil	0.25
310903.6987	1959083.915	-64.78312167	17.71078667	3200	cpm	soil	0.25
310902.4454	1959082.267	-64.78313333	17.71077167	3200	cpm	soil	0.25
310901.3672	1959080.432	-64.78314333	17.710755	3240	cpm	soil	0.25
0*	0*	0*	0*	3290	cpm	soil	0.25
310899.2107	1959076.763	-64.78316333	17.71072167	3270	cpm	soil	0.25
310897.9557	1959074.93	-64.783175	17.710705	3380	cpm	soil	0.25
0*	0*	0*	0*	3500	cpm	soil	0.25
310896.3313	1959071.44	-64.78319	17.71067333	3550	cpm	soil	0.25
310895.0763	1959069.608	-64.78320167	17.71065667	3610	cpm	soil	0.25
310894.5267	1959067.584	-64.78320667	17.71063833	3640	cpm	soil	0.25
310893.8038	1959065.93	-64.78321333	17.71062333	3620	cpm	soil	0.25
0*	0*	0*	0*	3550	cpm	soil	0.25
310892.7203	1959063.542	-64.78322333	17.71060167	3620	cpm	soil	0.25
310891.6351	1959060.97	-64.78323333	17.71057833	3850	cpm	soil	0.25
310890.9105	1959059.132	-64.78324	17.71056167	3920	cpm	soil	0.25
310890.1841	1959057.109	-64.78324667	17.71054333	3860	cpm	soil	0.25
310889.6345	1959055.085	-64.78325167	17.710525	4040	cpm	soil	0.25
310888.9081	1959053.063	-64.78325833	17.71050667	4140	cpm	soil	0.25
310888.544	1959051.96	-64.78326167	17.71049667	4190	cpm	soil	0.25
310887.9962	1959050.12	-64.78326667	17.71048	3980	cpm	soil	0.25
310886.9075	1959047.179	-64.78327667	17.71045333	3840	cpm	soil	0.25
310886.3649	1959045.892	-64.78328167	17.71044167	3800	cpm	soil	0.25
310885.9955	1959044.236	-64.783285	17.71042667	3900	cpm	soil	0.25
310885.628	1959042.763	-64.78328833	17.71041333	3740	cpm	soil	0.25
310885.2691	1959042.213	-64.78329167	17.71040833	3730	cpm	soil	0.25
310884.1874	1959040.01	-64.78330167	17.71038833	3850	cpm	soil	0.25

Table 5-7: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site							
X	**Y**	**DEC_DEG_X**	**DEC_DEG_Y**	**RESULTS**	**UNITS**	**SURFACE**	**DET HEIGHT (M)**
310883.6501	1959039.277	-64.78330667	17.71038167	3950	cpm	soil	0.25
310883.6501	1959039.277	-64.78330667	17.71038167	3870	cpm	soil	0.25
0*	0*	0*	0*	4090	cpm	soil	0.25
310883.8111	1959037.615	-64.783305	17.71036667	4040	cpm	soil	0.25
310884.1455	1959035.583	-64.78330167	17.71034833	3980	cpm	soil	0.25
310884.3048	1959033.736	-64.7833	17.71033167	4030	cpm	soil	0.25
310884.2856	1959031.707	-64.7833	17.71031333	4060	cpm	soil	0.25
310884.2664	1959029.678	-64.7833	17.710295	4100	cpm	soil	0.25
310884.2507	1959028.018	-64.7833	17.71028	4040	cpm	soil	0.25
310884.9334	1959025.429	-64.78329333	17.71025667	3820	cpm	soil	0.25
310885.28	1959024.688	-64.78329	17.71025	3700	cpm	soil	0.25
310885.4358	1959022.473	-64.78328833	17.71023	3620	cpm	soil	0.25
310885.6074	1959021.918	-64.78328667	17.710225	3640	cpm	soil	0.25
310885.6074	1959021.918	-64.78328667	17.710225	3690	cpm	soil	0.25
310885.6074	1959021.918	-64.78328667	17.710225	3540	cpm	soil	0.25
310886.1238	1959020.437	-64.78328167	17.71021167	3550	cpm	soil	0.25
310886.4704	1959019.696	-64.78327833	17.710205	3580	cpm	soil	0.25
310886.817	1959018.954	-64.783275	17.71019833	3510	cpm	soil	0.25
310887.4979	1959016.181	-64.78326833	17.71017333	3490	cpm	soil	0.25
0*	0*	0*	0*	3540	cpm	soil	0.25
310888.5255	1959012.666	-64.78325833	17.71014167	3510	cpm	soil	0.25
310888.8651	1959011.187	-64.783255	17.71012833	3620	cpm	soil	0.25
310889.0262	1959009.525	-64.78325333	17.71011333	3650	cpm	soil	0.25
310889.371	1959008.599	-64.78325	17.710105	3740	cpm	soil	0.25
310890.5806	1959005.636	-64.78323833	17.71007833	3620	cpm	soil	0.25
0*	0*	0*	0*	3640	cpm	soil	0.25
310891.4349	1959002.492	-64.78323	17.71005	3620	cpm	soil	0.25
310892.1229	1959000.456	-64.78322333	17.71003167	3630	cpm	soil	0.25
310892.4607	1958998.793	-64.78322	17.71001667	3730	cpm	soil	0.25
310893.3237	1958996.571	-64.78321167	17.70999667	3860	cpm	soil	0.25
0*	0*	0*	0*	3750	cpm	soil	0.25
310894.0047	1958993.797	-64.783205	17.70997167	3810	cpm	soil	0.25
310893.8104	1958991.954	-64.78320667	17.709955	3910	cpm	soil	0.25
310893.6144	1958989.927	-64.78320833	17.70993667	3790	cpm	soil	0.25
310893.5865	1958986.976	-64.78320833	17.70991	3770	cpm	soil	0.25
0*	0*	0*	0*	3770	cpm	soil	0.25
310894.9781	1958984.564	-64.783195	17.70988833	3860	cpm	soil	0.25
310896.193	1958982.155	-64.78318333	17.70986667	3900	cpm	soil	0.25
0*	0*	0*	0*	3940	cpm	soil	0.25
310897.2223	1958978.824	-64.78317333	17.70983667	3950	cpm	soil	0.25
0*	0*	0*	0*	4190	cpm	soil	0.25
310898.0766	1958975.68	-64.783165	17.70980833	4130	cpm	soil	0.25

Table 5-7: Gamma Count Rate Measurements Collected Along the Northern Fence Line of the Site

X	Y	DEC_DEG_X	DEC_DEG_Y	RESULTS	UNITS	SURFACE	DET HEIGHT (M)
310900.1754	1958973.262	-64.783145	17.70978667	4260	cpm	soil	0.25
310900.8686	1958971.779	-64.78313833	17.70977333	4360	cpm	soil	0.25
310901.7386	1958970.295	-64.78313	17.70976	4560	cpm	soil	0.25
310902.6068	1958968.627	-64.78312167	17.709745	4670	cpm	soil	0.25
0*	0*	0*	0*	4730	cpm	soil	0.25
310903.6344	1958965.112	-64.78311167	17.70971333	4660	cpm	soil	0.25
0*	0*	0*	0*	4820	cpm	soil	0.25
0*	0*	0*	0*	5270	cpm	soil	0.25
0*	0*	0*	0*	5810	cpm	soil	0.25
310904.2892	1958959.572	-64.783105	17.70966333	6050	cpm	soil	0.25
0*	0*	0*	0*	6220	cpm	soil	0.25
310904.2892	1958959.572	-64.783105	17.70966333	6670	cpm	soil	0.25
310904.2892	1958959.572	-64.783105	17.70966333	6810	cpm	soil	0.25

Minimum =	**1790**
Maximum =	**6810**
Median =	**2910**
Arithmetic mean =	**2915**
One Sigma =	**746**
Two Sigma =	**1493**

Average Background =	**5193.75**	**cpm**		
Background +/- One Sigma =	**4597**	**to**	**5790**	**cpm**
Background +/- Two Sigma	**4000**	**to**	**6387**	**cpm**

0* - GPS data not available

Table 5-8

Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located near the Northern Boundary of the Site

Table 5-8: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-01-C	45	42	Red Mud	17.71075667	-64.780055
RMAEXP-02-C	47	45	Red Mud	17.710935	-64.78017167
RMAEXP-03-C	38	38	Red Mud	17.711085	-64.78023
RMAEXP-04-C	37	35	Red Mud	17.711155	-64.78033333
RMAEXP-05-C	37	35	Red Mud	17.71129	-64.78027667
RMAEXP-06-C	44	43	Red Mud	17.71122833	-64.78016
RMAEXP-07-C	48	46	Red Mud	17.71115333	-64.78004333
RMAEXP-08-C	48	46	Red Mud	17.71123333	-64.77993833
RMAEXP-09-C	48	46	Red Mud	17.71130333	-64.78005833
RMAEXP-10-C	45	42	Red Mud	17.71137167	-64.780175
RMAEXP-11-C	40	39	Red Mud	17.71161167	-64.78009167
RMAEXP-12-C	47	44	Red Mud	17.711505	-64.77983667
RMAEXP-13-C	47	45	Red Mud	17.71169	-64.77964833
RMAEXP-14-C	44	41	Red Mud	17.7119	-64.77948667
RMAEXP-15-C	49	46	Red Mud	17.71105667	-64.77978
RMAEXP-16-C	48	47	Red Mud	17.710825	-64.77986167
RMAEXP-17-C	57	52	Red Mud	17.71058667	-64.77971333
RMAEXP-18-C	45	41	Red Mud	17.71036667	-64.779535
RMAEXP-19-C	42	40	Red Mud	17.71016333	-64.779765
RMAEXP-20-C	40	38	Red Mud	17.70991667	-64.77961
RMAEXP-21-C	44	43	Red Mud	17.71005167	-64.77937
RMAEXP-22-C	43	41	Red Mud	17.70983167	-64.77921
RMAEXP-23-C	38	37	Red Mud	17.70968	-64.77945167
RMAEXP-24-C	41	39	Red Mud	17.70966333	-64.77906333
RMAEXP-25-C	44	43	Red Mud	17.70941833	-64.77890833
RMAEXP-26-C	39	38	Red Mud	17.70923333	-64.77913667
RMAEXP-27-C	47	47	Red Mud	17.70899	-64.778965
RMAEXP-28-C	51	49	Red Mud	17.70921	-64.77875
RMAEXP-29-C	48	48	Red Mud	17.70897167	-64.77857667
RMAEXP-30-C	43	40	Red Mud	17.70881667	-64.77881667

Table 5-8: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-31-C	45	43	Red Mud	17.709105	-64.778275
RMAEXP-32-C	46	44	Red Mud	17.70921	-64.778035
RMAEXP-33-C	46	44	Red Mud	17.709345	-64.77777167
RMAEXP-34-C	47	46	Red Mud	17.709505	-64.77753
RMAEXP-35-C	46	44	Red Mud	17.709665	-64.77726833
RMAEXP-36-C	32	32	Red Mud	17.70982333	-64.777085
RMAEXP-37-C	49	47	Red Mud	17.70935833	-64.77838833
RMAEXP-38-C	46	44	Red Mud	17.70952667	-64.77816
RMAEXP-39-C	50	49	Red Mud	17.70966	-64.77790333
RMAEXP-40-C	48	47	Red Mud	17.70978167	-64.77764333
RMAEXP-41-C	46	45	Red Mud	17.70992333	-64.777365
RMAEXP-42-C	46	44	Red Mud	17.710035	-64.77709833
RMAEXP-43-C	45	43	Red Mud	17.71017333	-64.77682167
RMAEXP-44-C	43	41	Red Mud	17.710345	-64.776955
RMAEXP-45-C	44	42	Red Mud	17.71019667	-64.77719167
RMAEXP-46-C	43	43	Red Mud	17.71007167	-64.77745667
RMAEXP-47-C	50	49	Red Mud	17.70995833	-64.777725
RMAEXP-48-C	60	58	Red Mud	17.70987	-64.77800833
RMAEXP-49-C	49	49	Red Mud	17.70974	-64.77824833
RMAEXP-50-C	50	48	Red Mud	17.70954833	-64.77856667
RMAEXP-51-C	51	49	Red Mud	17.70975333	-64.778765
RMAEXP-52-C	49	47	Red Mud	17.70996667	-64.77896667
RMAEXP-53-C	50	48	Red Mud	17.71017333	-64.779165
RMAEXP-54-C	50	48	Red Mud	17.71042667	-64.77931167
RMAEXP-55-C	48	46	Red Mud	17.71064833	-64.779535
RMAEXP-56-C	50	50	Red Mud	17.71093167	-64.77966667
RMAEXP-57-C	54	50	Red Mud	17.71113167	-64.77943833
RMAEXP-58-C	52	49	Red Mud	17.71091667	-64.77924
RMAEXP-59-C	49	47	Red Mud	17.71119333	-64.77923
RMAEXP-60-C	45	43	Red Mud	17.71146	-64.77912333

Table 5-8: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-61-C	46	45	Red Mud	17.711655	-64.779185
RMAEXP-62-C	45	43	Red Mud	17.71185	-64.77896667
RMAEXP-63-C	45	43	Red Mud	17.71192333	-64.778675
RMAEXP-64-C	46	44	Red Mud	17.71199833	-64.77838833
RMAEXP-65-C	48	47	Red Mud	17.71174	-64.77824667
RMAEXP-66-C	49	47	Red Mud	17.71164833	-64.77855333
RMAEXP-67-C	45	43	Red Mud	17.71152667	-64.77882667
RMAEXP-68-C	46	44	Red Mud	17.71133	-64.77905833
RMAEXP-69-C	46	44	Red Mud	17.71107833	-64.77894667
RMAEXP-70-C	48	46	Red Mud	17.710985	-64.7791
RMAEXP-71-C	47	45	Red Mud	17.710705	-64.77902333
RMAEXP-72-C	45	45	Red Mud	17.71076667	-64.77874667
RMAEXP-73-C	51	51	Red Mud	17.7105	-64.77869667
RMAEXP-74-C	49	48	Red Mud	17.71060833	-64.77842167
RMAEXP-75-C	47	45	Red Mud	17.71086333	-64.77854667
RMAEXP-76-C	43	41	Red Mud	17.71112667	-64.77865833
RMAEXP-77-C	45	44	Red Mud	17.71139167	-64.77877333
RMAEXP-78-C	47	45	Red Mud	17.71151333	-64.778485
RMAEXP-79-C	47	46	Red Mud	17.71124167	-64.77842
RMAEXP-80-C	49	47	Red Mud	17.71098167	-64.77835167
RMAEXP-81-C	49	48	Red Mud	17.71070333	-64.778285
RMAEXP-82-C	45	43	Red Mud	17.71078833	-64.77796833
RMAEXP-83-C	46	44	Red Mud	17.71052833	-64.77783333
RMAEXP-84-C	50	49	Red Mud	17.71046	-64.777565
RMAEXP-85-C	47	45	Red Mud	17.71060667	-64.77732667
RMAEXP-86-C	39	39	Red Mud	17.710845	-64.77724167
RMAEXP-87-C	58	55	Red Mud	17.71109833	-64.77739
RMAEXP-88-C	61	58	Red Mud	17.71136333	-64.77747667
RMAEXP-89-C	45	43	Red Mud	17.71155	-64.77768333
RMAEXP-90-C	45	44	Red Mud	17.71149667	-64.77793333

Table 5-8: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-91-C	47	46	Red Mud	17.711235	-64.77803
RMAEXP-92-C	47	45	Red Mud	17.71100833	-64.777995
RMAEXP-93-C	44	42	Red Mud	17.712125	-64.77814
RMAEXP-94-C	44	42	Red Mud	17.712145	-64.77784167
RMAEXP-95-C	45	43	Red Mud	17.71230167	-64.77759167
RMAEXP-96-C	48	46	Red Mud	17.712335	-64.77731667
RMAEXP-97-C	44	42	Red Mud	17.712345	-64.77704333
RMAEXP-98-C	43	41	Red Mud	17.71226833	-64.77678667
RMAEXP-99-C	45	43	Red Mud	17.712155	-64.77653167
RMAEXP-100-C	48	46	Red Mud	17.712	-64.77627667
RMAEXP-101-C	46	44	Red Mud	17.71178667	-64.77611833
RMAEXP-102-C	44	42	Red Mud	17.711535	-64.77618833
RMAEXP-103-C	44	42	Red Mud	17.71131167	-64.77632
RMAEXP-104-C	44	42	Red Mud	17.71109167	-64.77646833
RMAEXP-105-C	47	46	Red Mud	17.71085333	-64.77657
RMAEXP-106-C	50	48	Red Mud	17.71086333	-64.77683167
RMAEXP-107-C	43	41	Red Mud	17.71063333	-64.77688833
RMAEXP-108-C	38	36	Red Mud	17.71053	-64.776665
RMAEXP-109-C	39	37	Red Mud	17.71122833	-64.776665
RMAEXP-110-C	38	38	Red Mud	17.71116167	-64.77693
RMAEXP-111-C	40	39	Red Mud	17.71137167	-64.77704667
RMAEXP-112-C	43	41	Red Mud	17.71143833	-64.77680667
RMAEXP-113-C	45	43	Red Mud	17.71157	-64.77654667
RMAEXP-114-C	46	44	Red Mud	17.71178167	-64.77666833
RMAEXP-115-C	48	46	Red Mud	17.71176833	-64.77693
RMAEXP-116-C	48	46	Red Mud	17.71196667	-64.77709
RMAEXP-117-C	47	44	Red Mud	17.71203333	-64.77750333
RMAEXP-118-C	46	45	Red Mud	17.71178333	-64.777455
RMAEXP-119-C	46	44	Red Mud	17.71151833	-64.777355
RMAEXP-120-C	43	41	Red Mud	17.71126	-64.77730167

Table 5-8: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-121-C	38	37	Red Mud	17.71101167	-64.77718667
RMAEXP-122-C	38	37	Red Mud	17.71072667	-64.77717667
RMAEXP-123-C	38	37	Red Mud	17.71046667	-64.77724333
RMAEXP-124-C	41	39	Red Mud	17.71036667	-64.77749667
RMAEXP-125-C	40	40	Red Mud	17.71033167	-64.77777167
RMAEXP-126-C	45	44	Red Mud	17.71182	-64.77803667
RMAEXP-127-C	43	41	Red Mud	17.711945	-64.77790167
RMAEXP-128-C	52	50	Red Mud	17.71044167	-64.77822333
RMAEXP-129-C	56	54	Red Mud	17.71021167	-64.77814
RMAEXP-130-C	50	48	Red Mud	17.71011833	-64.77841333
RMAEXP-131-C	50	48	Red Mud	17.71035	-64.77847
RMAEXP-132-C	38	38	Red Mud	17.71005667	-64.77971833
RMAEXP-133-C	39	38	Red Mud	17.7098	-64.77966
RMAEXP-134-C	47	45	Red Mud	17.709555	-64.779605
RMAEXP-135-C	47	45	Red Mud	17.70935833	-64.77948667
RMAEXP-136-C	46	44	Red Mud	17.70913667	-64.779375
RMAEXP-137-C	46	45	Red Mud	17.70892833	-64.77925
RMAEXP-138-C	46	44	Red Mud	17.70871333	-64.77913
RMAEXP-139-C	46	44	Red Mud	17.70893	-64.78041667
RMAEXP-140-C	47	46	Red Mud	17.70885833	-64.78064833
RMAEXP-141-C	47	47	Red Mud	17.70872	-64.780845
RMAEXP-142-C	42	41	Red Mud	17.708575	-64.78107833
RMAEXP-143-C	43	43	Red Mud	17.708415	-64.7813
RMAEXP-144-C	36	34	Red Mud	17.70830167	-64.781575
RMAEXP-145-C	40	39	Red Mud	17.70827833	-64.78186667
RMAEXP-146-C	44	42	Red Mud	17.708585	-64.78205333
RMAEXP-147-C	44	44	Red Mud	17.70878667	-64.78167667
RMAEXP-148-C	55	50	Red Mud	17.70895167	-64.78131333
RMAEXP-149-C	45	43	Red Mud	17.70907167	-64.78084833
RMAEXP-150-C	33	31	Red Mud	17.70932333	-64.78091167

Table 5-8: Exposure Rate Measurements Collected in the Red Mud Disposal Area "A" Located Near the Northern Boundary of the Site					
Location	**Measurement on Contact (μR/h)**	**Measurement at 1 meter (μR/h)**	**Surface**	**Latitude**	**Longitude**
RMAEXP-151-C	48	45	Red Mud	17.70925167	-64.78118333
RMAEXP-152-C	48	45	Red Mud	17.70911667	-64.78142667
RMAEXP-153-C	33	32	Red Mud	17.70902667	-64.78165833
RMAEXP-154-C	45	43	Red Mud	17.70894333	-64.781935
RMAEXP-155-C	36	35	Red Mud	17.70917667	-64.782025
RMAEXP-156-C	40	38	Red Mud	17.70931333	-64.78177333
RMAEXP-157-C	35	34	Red Mud	17.70940833	-64.78152833
RMAEXP-158-C	33	31	Red Mud	17.70952333	-64.78129167
RMAEXP-159-C	47	44	Red Mud	17.70962333	-64.781045
RMAEXP-160-C	32	30	Red Mud	17.70973167	-64.78078667
RMAEXP-161-C	30	29	Red Mud	17.70982333	-64.78130833
RMAEXP-162-C	32	31	Red Mud	17.71013167	-64.78154167
RMAEXP-163-C	24	22	Red Mud	17.71057167	-64.78187667
Minimum =	**24**	**22**			
Maximum =	**61**	**58**			
Median =	**46**	**44**			
Arithmetic Mean =	**45**	**43**			
One Sigma =	**5.4**	**5.2**			
Two Sigma =	**11**	**10**			

Average Background =	**3.6**	**μR/h**		
Background +/- One Sigma =	**3**	**to**	**4**	**μR/h**
Background +/- Two Sigma =	**2**	**to**	**5**	**μR/h**

Table 5-9A

Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Table 5-9A: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST01A	B1.11274B	Surface waste sample from Red Mud Disposal Area A	11	1	NR		1.6	0.2	NR		10	1	NR		2	1	NR	
RMA-WST02A	B1.11275C	Surface waste sample from Red Mud Disposal Area A	15	2	NR		3.2	0.4	NR		14	2	NR		4	2	NR	
RMA-WST03A	B1.11276D	Surface waste sample from Red Mud Disposal Area A	15	2	NR		3.4	0.4	NR		14	2	NR		5	2	NR	
RMA-WST04A	B1.11277E	Surface waste sample from Red Mud Disposal Area A	12	1	NR		2.6	0.3	NR		11	1	NR		3	2	NR	
RMA-WST06A	B1.11278F	Surface waste sample from Red Mud Disposal Area A	14	2	NR		3.8	0.4	NR		13	1	NR		5	1	NR	
RMA-WST07A	B1.11279G	Surface waste sample from Red Mud Disposal Area A	15	2	NR		3.3	0.4	NR		14	2	NR		4	2	NR	
RMA-WST09A	B1.11280Z	Surface waste sample from Red Mud Disposal Area A	13	2	NR		2.6	0.3	NR		13	2	NR		4	2	NR	
RMA-WST09A	B1.11280Z (DUP)	Lab duplicate of RMA-WST09A	13	2	NR		2.6	0.3	NR		13	1	NR		2	1	NR	
RMA-WST09B	B1.11281A	Subsurface waste sample from Red Mud Disposal Area A; depth = 7'	17	2	NR		4.1	0.5	NR		16	2	NR		3	2	NR	
RMA-WST11A	B1.11282B	Surface waste sample from Red Mud Disposal Area A	16	2	NR		3.8	0.4	NR		15	2	NR		5	2	NR	
RMA-WST12A	B1.11283C	Surface waste sample from Red Mud Disposal Area A	21	2	NR		3.5	0.4	NR		19	2	NR		4	2	NR	
RMA-WST14A	B1.11284D	Surface waste sample from Red Mud Disposal Area A	11	1	NR		2.8	0.3	NR		11	1	NR		3	2	NR	
RMA-WST14B	B1.11285E	Subsurface waste sample from Red Mud Disposal Area A; depth = 3.5'	11	1	NR		2.2	0.3	NR		11	1	NR		2	2	NR	
RMA-WST15A	B1.11286F	Surface waste sample from Red Mud Disposal Area A	11	1	NR		2.5	0.3	NR		11	1	NR		2	2	NR	
RMA-WST16A	B1.11287G	Surface waste sample from Red Mud Disposal Area A	13	2	NR		3.1	0.4	NR		13	2	NR		4	2	NR	
RMA-WST16B	B1.11288H	Subsurface waste sample from Red Mud Disposal Area A; depth = 7.5'	13	2	NR		3.1	0.4	NR		13	2	NR		3	2	NR	
RMA-WST17A	B1.11289J	Surface waste sample from Red Mud Disposal Area A	14	2	NR		3.3	0.4	NR		13	2	NR		5	1	NR	
RMA-WST17B	B1.11290B	Subsurface waste sample from Red Mud Disposal Area A; depth = 3'	12	1	NR		3.0	0.4	NR		12	1	NR		3	1	NR	
RMA-WST18A	B1.11291C	Surface waste sample from Red Mud Disposal Area A	16	2	NR		3.9	0.5	NR		15	2	NR		6	2	NR	
RMA-WST19A	B1.11292D	Surface waste sample from Red Mud Disposal Area A	16	2	NR		3.5	0.4	NR		15	2	NR		5	2	NR	
RMA-WST20A	B1.11293E	Surface waste sample from Red Mud Disposal Area A	16	2	NR		3.3	0.4	NR		15	2	NR		4	2	NR	
ADP-WST41A	B1.11405U	Surface waste sample from Ash Disposal area	0.9	0.3	NR		1.3	0.2	NR		0.9	0.1	NR		3	2	NR	

Table 5-9A: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
ADP-WST41B	B1.11406V	Subsurface waste sample from Ash Disposal area; depth = 4'	0.4	0.4	NR		0.6	0.1	NR		0.7	0.1	NR		1	1	NR	
ADP-WST41C	B1.11407W	Duplicate of ADP-WST41B	0.7	0.3	NR		0.8	0.1	NR		0.8	0.1	NR		NR	NR	NR	
ADP-WST42A	B1.11408X	Surface waste sample from Ash Disposal area	1.0	0.3	NR		1.6	0.2	NR		1.0	0.1	NR		2	2	NR	
ADP-WST42B	B1.11409Y	Subsurface waste sample from Ash Disposal area; depth = 4'	1.0	0.2	NR		1.3	0.2	NR		0.8	0.1	NR		1.1	0.3	NR	
FBS-WST44A	B1.11410Q	Surface waste red mud sample from pile in Former Bauxite Storage shed	5.6	0.7	NR		1.1	0.1	NR		6	1	NR		1.1	0.3	NR	
FBS-WST44A	B1.11410Q (DUP)	Lab duplicate of FBS-WST44A	5.8	0.7	NR		1.1	0.1	NR		6	1	NR		2	2	NR	
FBS-WST45A	B1.11411R	Surface waste red mud sample from pile in Former Bauxite Storage shed	10	1	NR		2.1	0.3	NR		10	1	NR		3	1	NR	
FBS-WST46A	B1.11412T	Surface waste red mud sample from pile in Former Bauxite Storage shed	7	1	NR		1.3	0.2	NR		8	1	NR		1.4	0.3	NR	
RMB-WST24A	B1.11413U	Surface waste sample from Red Mud Disposal Area B	9	1	NR		3.5	0.4	NR		9	1	NR		2	2	NR	
RMB-WST28A	B1.11414V	Surface waste sample from Red Mud Disposal Area B	25	3	NR		5.3	0.6	NR		24	3	NR		5	3	NR	
RMB-WST29A	B1.11415W	Surface waste sample from Red Mud Disposal Area B	7.7	0.9	NR		2.9	0.3	NR		8	1	NR		4	1	NR	
RMB-WST30A	B1.11416X	Surface waste sample from Red Mud Disposal Area B	22	3	NR		4.8	0.6	NR		21	3	NR		4	3	NR	
RMB-WST30B	B1.11417Y	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	17	2	NR		9	1	NR		16	2	NR		7	2	NR	
RMB-WST32A	B1.11418Z	Surface waste sample from Red Mud Disposal Area B	7.0	0.9	NR		2.3	0.3	NR		7	1	NR		4	2	NR	
RMB-WST34A	B1.11419A	Surface waste sample from Red Mud Disposal Area B	10	1	NR		4.0	0.5	NR		10	1	NR		2	2	NR	
RMB-WST36A	B1.11420T	Surface waste sample from Red Mud Disposal Area B	23	3	NR		4.7	0.6	NR		22	3	NR		5	3	NR	
RMB-WST38A	B1.11421U	Surface waste sample from Red Mud Disposal Area B	26	3	NR		4.9	0.6	NR		25	3	NR		6	3	NR	
RMB-WST39A	B1.11422V	Surface waste sample from Red Mud Disposal Area B	12	2	NR		4.5	0.5	NR		12	1	NR		5	3	NR	
RMB-WST39B	B1.11423W	Subsurface waste sample from Red Mud Disposal Area B; depth = 3'	19	2	NR		5.0	0.6	NR		19	2	NR		7	3	NR	
RMB-WST40A	B1.11424X	Surface waste sample from Red Mud Disposal Area B; red sand area	9	1	NR		0.9	0.1	NR		9	1	NR		NR	NR	NR	
RMA-WST01B	B1.11425Y	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	12	1	NR		3.0	0.4	NR		11	1	NR	Q	5	2	NR	
RMA-WST01C	B1.11426Z	Duplicate of RMA-WST01B	12	1	NR		3.0	0.3	NR		11	1	NR	Q	5	2	NR	

Table 5-9A: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST03B	B1.11427A	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	15	2	NR		3.4	0.4	NR		15	2	NR	Q	4	2	NR	
RMA-WST10B	B1.11428B	Subsurface waste sample from Red Mud Disposal Area A; depth = 5-6'	17	2	NR		2.9	0.3	NR		16	2	NR	Q	4	2	NR	
RMA-WST12B	B1.11429C	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	25	3	NR		4.2	0.5	NR		24	3	NR	Q	7	3	NR	
ADP-SD49	B1.11619G	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	1	0	NR		0.8	0.1	NR		1.3	0.2	NR	Q	2	2	NR	
LCP-SD33	B1.11631C	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	0	0	NR		0.1	0.0	NR		0.3	0.1	NR	Q	2	1	NR	
RMA-WST13A	B1.11632D	Surface waste sample from Red Mud Disposal Area A	14	2	NR		3.0	0.4	NR		13	1	NR	Q	4	1	NR	
RMA-WST13B	B1.11633E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	14	2	NR		4.6	0.5	NR		14	2	NR	Q	8	2	NR	
RMA-WST20B	B1.11634F	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	14	2	NR		2.8	0.3	NR		13	2	NR		3	2	NR	
RMA-WSTR01A	B1.11635G	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	18	2	NR		4.7	0.6	NR		17	2	NR		3	2	NR	
RMA-WSTR02A	B1.11636H	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	15	2	NR		3.6	0.4	NR		14	2	NR		4	2	NR	
RMS-SD45	B1.11637J	Sediment sample from same location as RMS-SW45; red clay with some silt and fine sand	13	2	NR		3.3	0.4	NR		12	1	NR		3	2	NR	
UCP-SD35	B1.11638K	Sediment sample from same location as UCP-SW35; red mud in mud flat sediments	2.9	0.4	NR		0.5	0.1	NR		2.4	0.3	NR		3	2	NR	
UCP-SD37	B1.11639L	Sediment sample from same location as UCP-SW37; red mud, heavy silting	8	1	NR		1.8	0.2	NR		7	1	NR		5	2	NR	
UCP-SD39	B1.11640D	Sediment sample from same location as UCP-SW39; red clay with some fine sand, soft	13	2	NR		3.1	0.4	NR		13	2	NR		4	2	NR	
UCP-SD39	B1.11640D (DUP)	Lab duplicate of UCP-SD39	14	2	NR		3.2	0.4	NR		13	2	NR		4	2	NR	
RMA-WST02B	B1.11641E	Subsurface waste sample from Red Mud Disposal Area A; depth = 2-4'	15	2	NR		3.4	0.4	NR		15	2	NR		5	3	NR	

Table 5-9A: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																		
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST04B	B1.11642F	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	11	1	NR		2.3	0.3	NR		11	1	NR		3	2	NR	
RMA-WST05A	B1.11643G	Surface waste sample from Red Mud Disposal Area A	17	2	NR		3.9	0.5	NR		16	2	NR		4	3	NR	
RMA-WST05B	B1.11644H	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	17	2	NR		3.8	0.5	NR		16	2	NR		4	3	NR	
RMA-WST06B	B1.11645J	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	16	2	NR		4.5	0.5	NR		15	2	NR		13	3	NR	
RMA-WST07B	B1.11646K	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	18	2	NR		6.7	0.8	NR		18	2	NR		7	3	NR	
RMA-WST08A	B1.11647L	Surface waste sample from Red Mud Disposal Area A	14	2	NR		2.7	0.3	NR		12	1	NR		3	2	NR	
RMA-WST10A	B1.11648M	Surface waste sample from Red Mud Disposal Area A	11	1	NR		2.3	0.3	NR		11	1	NR		2	2	NR	
RMA-WST11B	B1.11649N	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	16	2	NR		3.4	0.4	NR		16	2	NR		5	3	NR	
RMA-WST11C	B1.11650F	Duplicate of RMA-WST11A	16	2	NR		3.9	0.5	NR		16	2	NR		12	3	NR	
RMA-WST19B	B1.11651G	Subsurface waste sample from Red Mud Disposal Area A; depth = 5'	13	2	NR		3.0	0.4	NR		12	1	NR		3	3	NR	
RMB-WST22A	B1.11652H	Surface waste sample from Red Mud Disposal Area B; sandy red mud	15	2	NR		7.5	0.9	NR		14	2	NR		7	3	NR	
RMB-WST22B	B1.11653J	Subsurface waste sample from Red Mud Disposal Area B; sandy red mud; depth = 10'	9	1	NR		4.6	0.5	NR		9	1	NR		6	2	NR	
RMB-WST23A	B1.11654K	Surface waste sample from Red Mud Disposal Area B	14	2	NR		4.9	0.6	NR		13	2	NR		5	2	NR	
RMB-WST23B	B1.11655L	Subsurface waste sample from Red Mud Disposal Area B; granular material; depth = 7.5'	11	1	NR		4.9	0.6	NR		10	1	NR		6	1	NR	
RMB-WST23C	B1.11656M	Duplicate of RMB-WST23B	10	1	NR		4.4	0.5	NR		9	1	NR		7	2	NR	
RMB-WST28B	B1.11657N	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	15	2	NR		7.2	0.8	NR		14	2	NR		8	3	NR	
RMB-WST29B	B1.11658P	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5'	13	2	NR	J	5.9	0.7	NR	J	13	2	NR	J	7	3	NR	J
RMB-WST34B	B1.11659Q	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5-4'	14	2	NR		5.0	0.6	NR		13	2	NR		4	2	NR	
RMB-WST37A	B1.11660H	Surface waste sample from Red Mud Disposal Area B	13	2	NR		5.1	0.6	NR		12	1	NR		5	2	NR	
RMB-WST37A	B1.11660H (DUP)	Lab duplicate of RMB-WST37A	13	2	NR		5.3	0.6	NR		12	1	NR		5	2	NR	

Table 5-9A: Gamma Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-232[a]				Ra-226[b]				Ra-228[c]				U-238[d]			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMB-WST37B	B1.11661J	Subsurface waste sample from Red Mud Disposal Area B; depth = 8'	16	2	NR		4.6	0.5	NR		16	2	NR		5	3	NR	
FBS-WST43A	B1.11720C	Surface waste red mud sample from drainage channel behind Former Bauxite Storage shed	5	1	NR		1.0	0.1	NR		5	1	NR		1	1	NR	
RMA-SD57	B1.11721D	*Sample from red mud depositional area south of Area A*	12	1	NR		2.7	0.3	NR		11	1	NR		3	2	NR	
RMA-SD58	B1.11722E	*Sample from red mud depositional area south of Area A*	7	1	NR		2.0	0.2	NR		8	1	NR		3	1	NR	
RMA-SD59	B1.11723F	*Sample from red mud depositional area south of Area A*	12	1	NR		3.1	0.4	NR		11	1	NR		4	2	NR	
RMA-SD60	B1.11724G	*Sample from red mud depositional area south of Area A*	11	1	NR		2.6	0.3	NR		11	1	NR		2	1	NR	
RMA-SD61	B1.11725H	*Sample from red mud depositional area south of Area A*	5	1	NR		0.8	0.1	NR		5	1	NR		1	1	NR	
RMA-SD61	B1.11725H (DUP)	*Lab duplicate of RMA-SD61*	5	1	NR		0.9	0.1	NR		5	1	NR		2	1	NR	
RMA-SD62	B1.11726J	*Sample from red mud depositional area south of Area A*	11	1	NR		2.4	0.3	NR		10	1	NR		2	1	NR	
RMA-SD63	B1.11727K	*Duplicate of RMA-SD62*	10	1	NR		2.2	0.3	NR		9	1	NR		2	1	NR	
RMA-WST06B(2)	B1.11728L	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	13	2	NR		4.0	0.5	NR		13	2	NR		2	2	NR	
RMA-WST08B	B1.11729M	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	16	2	NR		3.7	0.4	NR		16	2	NR		4	2	NR	
RMA-WST18B	B1.11730E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	17	2	NR		3.7	0.4	NR		17	2	NR		3	3	NR	

(a) Estimated using the Bi-212 or when Bi-212 is not reported using the Pb-212 or Tl-208 with the assumption of secular equilibrium..
(b) Estimated using the Bi-214 or when Bi-214 is not reported using the Pb-214 with the assumption of secular equilibrium.
(c) Estimated using the Ac-228 energy peak.
(d) Estimated using the Pa-234m or when Pa-234m is not reported using the Th-234 with the assumption of secular equilibrium.
NR - Not Reported, NA - Not Applicable, J - Reported value is estimated, Q - duplicate analysis not reported
(DUP) - Laboratory Duplicate

Table 5-9B

Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Table 5-9B: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST01A	B1.11274B	Surface waste sample from Red Mud Disposal Area A	1.0	0.3	0.1		9	1	0.1		1.2	0.3	0.1		0.02	0.05	0.08	U	1.3	0.3	0.06	
RMA-WST02A	B1.11275C	Surface waste sample from Red Mud Disposal Area A	3.4	0.6	0.1		14	2	0.1		3.0	0.5	0.05		0.2	0.1	0.08		3.4	0.6	0.08	
RMA-WST02A	B1.11275C (DUP)	Lab duplicate of RMA-WST02A	3.5	0.6	0.1		13	2	0.1		2.8	0.5	0.1		0.1	0.1	0.06		3.2	0.5	0.08	
RMA-WST03A	B1.11276D	Surface waste sample from Red Mud Disposal Area A	3.3	0.6	0.1		14	2	0.1		3.9	0.6	0.1		0.2	0.1	0.06		3.9	0.6	0.05	
RMA-WST04A	B1.11277E	Surface waste sample from Red Mud Disposal Area A	2.5	0.5	0.1		11	1	0.1		2.4	0.4	0.1		0.2	0.1	0.06		2.7	0.5	0.05	
RMA-WST06A	B1.11278F	Surface waste sample from Red Mud Disposal Area A	3.9	0.6	0.1		12	2	0.1		4.4	0.7	0.1		0.3	0.2	0.10		3.6	0.6	0.08	
RMA-WST07A	B1.11279G	Surface waste sample from Red Mud Disposal Area A	3.2	0.6	0.1	J	13	2	0.1	J	4.9	0.7	0.1		0.2	0.1	0.08		3.8	0.6	0.08	
RMA-WST09A	B1.11280Z	Surface waste sample from Red Mud Disposal Area A	2.0	0.4	0.1		10	1	0.1		2.1	0.4	0.1		0.1	0.1	0.11		2.2	0.4	0.05	
RMA-WST09B	B1.11281A	Subsurface waste sample from Red Mud Disposal Area A; depth = 7'	3.5	0.6	0.1		14	2	0.2		3.4	0.5	0.1		0.2	0.1	0.07		3.4	0.5	0.08	
RMA-WST11A	B1.11282B	Surface waste sample from Red Mud Disposal Area A	3.6	0.6	0.1		14	2	0.1		3.5	0.6	0.1		0.3	0.1	0.06		3.1	0.5	0.07	
RMA-WST12A	B1.11283C	Surface waste sample from Red Mud Disposal Area A	3.3	0.6	0.2		16	2	0.2		2.7	0.5	0.05		0.2	0.1	0.06		2.6	0.5	0.06	
RMA-WST14A	B1.11284D	Surface waste sample from Red Mud Disposal Area A	1.8	0.4	0.1		9	1	0.1		1.4	0.3	0.1		0.1	0.1	0.07		1.5	0.3	0.04	
RMA-WST14A	B1.11284D (DUP)	Lab duplicate of RMA-WST14A	2.2	0.5	0.1		9	1	0.1		1.6	0.3	0.1		0.1	0.1	0.06		1.4	0.3	0.06	
RMA-WST14B	B1.11285E	Subsurface waste sample from Red Mud Disposal Area A; depth = 3.5'	2.3	0.5	0.1		11	1	0.1		1.6	0.3	0.1		0.0	0.1	0.05	U	1.9	0.3	0.06	
RMA-WST15A	B1.11286F	Surface waste sample from Red Mud Disposal Area A	1.9	0.4	0.1		9	1	0.2		1.4	0.3	0.1		0.2	0.1	0.08		1.4	0.3	0.06	
RMA-WST16A	B1.11287G	Surface waste sample from Red Mud Disposal Area A	2.3	0.5	0.1		10	1	0.1		1.6	0.3	0.1		0.1	0.1	0.07	B	2.1	0.4	0.08	
RMA-WST16B	B1.11288H	Subsurface waste sample from Red Mud Disposal Area A; depth = 7.5'	2.3	0.5	0.1		11	1	0.2		1.8	0.4	0.1		0.1	0.1	0.08		2.2	0.4	0.09	
RMA-WST17A	B1.11289J	Surface waste sample from Red Mud Disposal Area A	2.9	0.5	0.2		11	1	0.1		2.8	0.6	0.1		0.2	0.1	0.12		2.5	0.5	0.1	
RMA-WST17B	B1.11290B	Subsurface waste sample from Red Mud Disposal Area A; depth = 3'	2.7	0.5	0.1		9	1	0.1		1.5	0.3	0.1		0.1	0.1	0.07		2.1	0.4	0.07	
RMA-WST18A	B1.11291C	Surface waste sample from Red Mud Disposal Area A	3.8	0.7	0.1		14	2	0.1		6.1	0.9	0.1		0.3	0.1	0.07		5.7	0.8	0.07	
RMA-WST19A	B1.11292D	Surface waste sample from Red Mud Disposal Area A	3.8	0.6	0.1		13	1	0.1		3.0	0.5	0.1		0.2	0.1	0.07		2.8	0.5	0.08	
RMA-WST20A	B1.11293E	Surface waste sample from Red Mud Disposal Area A	3.6	0.6	0.1		12	1	0.2		4.2	0.6	0.05		0.1	0.1	0.05		3.8	0.6	0.06	
ADP-WST41A	B1.11405U	Surface waste sample from Ash Disposal area	1.5	0.3	0.04		1	0.2	0.04		1.4	0.3	0.1		0.1	0.1	0.04		1.4	0.3	0.04	
ADP-WST41B	B1.11406V	Subsurface waste sample from Ash Disposal area; depth = 4'	0.6	0.1	0.02		1	0.1	0.02		0.6	0.1	0.02		0.04	0.03	0.02	J	0.6	0.1	0.02	
ADP-WST41C	B1.11407W	Duplicate of ADP-WST41B	0.9	0.1	0.03	J	1	0.1	0.03	J	0.7	0.1	0.02		0.02	0.02	0.02		0.6	0.1	0.02	
ADP-WST41C	B1.11407W (DUP)	Lab duplicate of RMA-WST41C	0.7	0.1	0.03	J	1	0.1	0.02	J	0.8	0.2	0.03		0.04	0.03	0.04		0.7	0.1	0.02	

Table 5-9B: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
ADP-WST42A	B1.11408X	Surface waste sample from Ash Disposal area	1.9	0.3	0.1		1	0.2	0.1		1.5	0.3	0.1		0.1	0.1	0.07	U	1.4	0.3	0.07	
ADP-WST42B	B1.11409Y	Subsurface waste sample from Ash Disposal area; depth = 4'	1.3	0.2	0.05		1	0.1	0.04		1.1	0.2	0.03		0.04	0.04	0.03		1.1	0.2	0.03	
FBS-WST44A	B1.11410Q	Surface waste red mud sample from pile in Former Bauxite Storage shed	1.0	0.2	0.05		5	1	0.1		0.9	0.2	0.1		0.1	0.1	0.05		0.7	0.2	0.07	
FBS-WST45A	B1.11411R	Surface waste red mud sample from pile in Former Bauxite Storage shed	2.3	0.4	0.04		10	1	0.1		2.6	0.4	0.1		0.1	0.1	0.07	U	2.4	0.4	0.06	
FBS-WST46A	B1.11412T	Surface waste red mud sample from pile in Former Bauxite Storage shed	1.5	0.3	0.04		8	1	0.04		1.2	0.3	0.1		0.1	0.1	0.05		1.2	0.3	0.07	
RMB-WST24A	B1.11413U	Surface waste sample from Red Mud Disposal Area B	3.2	0.5	0.1	J	8	1	0.1	J	2.1	0.4	0.1		0.1	0.1	0.06		1.8	0.4	0.05	
RMB-WST28A	B1.11414V	Surface waste sample from Red Mud Disposal Area B	5.1	0.7	0.1		21	2	0.1		2.4	0.4	0.1		0.2	0.1	0.06		2.7	0.5	0.05	
RMB-WST29A	B1.11415W	Surface waste sample from Red Mud Disposal Area B	3.1	0.5	0.05		7	1	0.1		2.2	0.4	0.05		0.1	0.1	0.09	U	1.6	0.3	0.09	
RMB-WST30A	B1.11416X	Surface waste sample from Red Mud Disposal Area B	4.5	0.6	0.1		17	2	0.1		3.2	0.5	0.1		0.1	0.1	0.07		3.3	0.5	0.07	
RMB-WST30B	B1.11417Y	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	9	1.0	0.1	J	14	2	0.05		4.8	0.7	0.1		0.4	0.2	0.06		4.8	0.7	0.06	
RMB-WST32A	B1.11418Z	Surface waste sample from Red Mud Disposal Area B	2.1	0.3	0.04	J	6	1	0.1	J	3.2	0.5	0.1		0.3	0.1	0.05		3.0	0.5	0.05	
RMB-WST34A	B1.11419A	Surface waste sample from Red Mud Disposal Area B	3.0	0.5	0.1		9	1	0.05		1.7	0.3	0.05		0.1	0.1	0.09		1.1	0.3	0.05	
RMB-WST36A	B1.11420T	Surface waste sample from Red Mud Disposal Area B	5.2	0.7	0.1		19	2	0.1		2.9	0.5	0.1		0.2	0.1	0.08	J	2.7	0.4	0.04	
RMB-WST38A	B1.11421U	Surface waste sample from Red Mud Disposal Area B	4.6	0.6	0.1	J	21	2	0.1		3.3	0.5	0.1		0.2	0.1	0.08		3.2	0.5	0.07	
RMB-WST39A	B1.11422V	Surface waste sample from Red Mud Disposal Area B	4.4	0.6	0.04		11	1	0.04		2.8	0.5	0.1		0.1	0.1	0.05	J	3.1	0.5	0.06	
RMB-WST39B	B1.11423W	Subsurface waste sample from Red Mud Disposal Area B; depth = 3'	5.5	0.7	0.1		16	2	0.1		5.4	0.8	0.1		0.2	0.1	0.08	J	4.9	0.7	0.06	
RMB-WST40A	B1.11424X	Surface waste sample from Red Mud Disposal Area B; red sand area	1.1	0.3	0.1		10	1	0.1		1.1	0.2	0.1		0.1	0.1	0.06	U	0.8	0.2	0.05	J
RMA-WST01B	B1.11425Y	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	1.5	0.3	0.1		5	1	0.1		1.2	0.2	0.04		0.1	0.1	0.08		1.4	0.3	0.06	
RMA-WST01C	B1.11426Z	Duplicate of RMA-WST01B	3.0	0.5	0.05		11	1	0.1		2.8	0.4	0.1		0.1	0.1	0.08		2.5	0.4	0.04	
RMA-WST03B	B1.11427A	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	3.4	0.5	0.1		13	1	0.1		2.2	0.4	0.1		0.2	0.1	0.07		2.6	0.4	0.08	
RMA-WST10B	B1.11428B	Subsurface waste sample from Red Mud Disposal Area A; depth = 5-6'	2.8	0.4	0.1		16	2	0.1		2.6	0.4	0.05		0.2	0.1	0.05		2.4	0.4	0.07	
RMA-WST12B	B1.11429C	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	4.0	0.5	0.1		22	2	0.1		3.6	0.5	0.04		0.2	0.1	0.06		3.1	0.5	0.06	
ADP-SD49	B1.11619G	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	1.0	0.2	0.03		1	0.2	0.04		0.8	0.2	0.1		0.05	0.05	0.05		0.7	0.2	0.03	

Table 5-9B: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
LCP-SD33	B1.11631C	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	0.3	0.2	0.1	J	0.4	0.2	0.1	J	3.7	0.5	0.05		0.2	0.1	0.06		3.4	0.5	0.06	
RMA-WST13A	B1.11632D	Surface waste sample from Red Mud Disposal Area A	3.6	0.5	0.1		13	1	0.1		2.8	0.5	0.1		0.1	0.1	0.06		2.7	0.5	0.09	
RMA-WST13B	B1.11633E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	4.5	0.6	0.1		13	1	0.1		3.7	0.6	0.1		0.2	0.1	0.07		3.6	0.6	0.05	
RMA-WST20B	B1.11634F	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	2.5	0.5	0.1		12	1	0.1		2.2	0.5	0.1		0.0	0.1	0.14	U	1.6	0.4	0.1	
RMA-WST20B	B1.11634F (DUP)	Lab duplicate of RMA-WST20B	2.5	0.5	0.1		11	1	0.2		2.2	0.5	0.2		0.2	0.1	0.11		2.1	0.5	0.1	
RMA-WSTR01A	B1.11635G	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	3.0	0.6	0.1		14	2	0.1		2.1	0.5	0.1		0.2	0.1	0.10		1.6	0.4	0.1	
RMA-WSTR02A	B1.11636H	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	3.0	0.6	0.1		14	2	0.1		2.1	0.5	0.2		0.1	0.1	0.11	U	2.5	0.5	0.1	
RMS-SD45	B1.11637J	Sediment sample from same location as RMS-SW45; red clay with some silt and fine sand	2.0	0.4	0.1		10	1	0.1		2.0	0.4	0.1		0.1	0.1	0.15	U	1.8	0.4	0.2	
UCP-SD35	B1.11638K	Sediment sample from same location as UCP-SW35; red mud in mud flat sediments	0.9	0.3	0.1		3	1	0.1		3.3	0.6	0.1		0.2	0.1	0.08		2.7	0.5	0.1	
UCP-SD37	B1.11639L	Sediment sample from same location as UCP-SW37; red mud, heavy silting	2.2	0.5	0.1		7	1	0.1		2.8	0.5	0.1		0.2	0.1	0.09		2.8	0.5	0.1	
UCP-SD39	B1.11640D	Sediment sample from same location as UCP-SW39; red clay with some fine sand, soft	2.7	0.5	0.1		10	1	0.1		2.9	0.6	0.1		0.2	0.1	0.10		2.5	0.5	0.08	
RMA-WST02B	B1.11641E	Subsurface waste sample from Red Mud Disposal Area A; depth = 2-4'	3.2	0.5	0.1		12	1	0.1		3.3	0.6	0.1		0.3	0.2	0.16		2.9	0.6	0.09	
RMA-WST04B	B1.11642F	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	2.5	0.5	0.1		10	1	0.1		2.2	0.5	0.1		0.1	0.1	0.18	U	2.3	0.5	0.1	
RMA-WST05A	B1.11643G	Surface waste sample from Red Mud Disposal Area A	4.2	0.6	0.1		15	1	0.1		4.0	0.7	0.1		0.2	0.2	0.11		4.1	0.7	0.1	
RMA-WST05B	B1.11644H	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	2.9	0.6	0.1		13	1	0.1		3.0	0.6	0.2		0.1	0.1	0.10	U	3.4	0.6	0.1	
RMA-WST06B	B1.11645J	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	3.5	0.8	0.3		12	2	0.2		1.5	0.5	0.2		0.1	0.2	0.17	U	1.5	0.5	0.2	
RMA-WST07B	B1.11646K	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	6	1	0.2		16	2	0.2		6.5	1.1	0.2		0.2	0.2	0.18		5.9	0.1	0.2	
RMA-WST08A	B1.11647L	Surface waste sample from Red Mud Disposal Area A	3.0	0.6	0.1		12	1	0.2		2.7	0.5	0.1		0.1	0.1	0.15	U	2.8	0.5	0.08	
RMA-WST10A	B1.11648M	Surface waste sample from Red Mud Disposal Area A	2.4	0.5	0.1		11	1	0.1		1.9	0.4	0.1		0.2	0.2	0.18		2.2	0.5	0.1	

Table 5-9B: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST11B	B1.11649N	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	3.8	0.6	0.1		13	1	0.1		2.7	0.5	0.2		0.1	0.1	0.10		3.1	0.6	0.1	
RMA-WST11C	B1.11650F	Duplicate of RMA-WST11A	3.0	0.6	0.1		13	1	0.2		3.2	0.6	0.1		0.1	0.1	0.10		3.4	0.6	0.2	
RMA-WST19B	B1.11651G	Subsurface waste sample from Red Mud Disposal Area A; depth = 5'	2.2	0.4	0.1		8	1	0.1		2.9	0.5	0.1		0.2	0.1	0.08		2.2	0.4	0.09	
RMB-WST22A	B1.11652H	Surface waste sample from Red Mud Disposal Area B; sandy red mud	6.6	0.9	0.1		12	1	0.1		4.4	0.7	0.1		0.3	0.2	0.08		4.3	0.7	0.09	
RMB-WST22B	B1.11653J	Subsurface waste sample from Red Mud Disposal Area B; sandy red mud; depth = 10'	3.9	0.7	0.2		7	1	0.1		3.8	0.7	0.2		0.2	0.1	0.12		3.5	0.7	0.1	
RMB-WST23A	B1.11654K	Surface waste sample from Red Mud Disposal Area B	3.0	0.5	0.1		10	1	0.1		3.0	0.5	0.1		0.2	0.1	0.09	J	2.8	0.5	0.1	
RMB-WST23B	B1.11655L	Subsurface waste sample from Red Mud Disposal Area B; granular material; depth = 7.5'	3.9	0.7	0.2	J	7	1	0.1	J	4.2	0.7	0.1		0.2	0.1	0.09	J	3.9	0.6	0.07	
RMB-WST23C	B1.11656M	Duplicate of RMB-WST23B	3.4	0.6	0.1		8	1	0.1		3.9	0.7	0.1		0.2	0.1	0.07	J	3.8	0.6	0.08	
RMB-WST28B	B1.11657N	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	7.2	0.9	0.1		11	1	0.1		6.3	1.0	0.1		0.5	0.2	0.08	J	6	1	0.09	
RMB-WST29B	B1.11658P	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5'	5.6	0.8	0.1		10	1	0.1		6.3	1.0	0.1		0.4	0.2	0.07	J	7	1	0.08	
RMB-WST34B	B1.11659Q	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5-4'	3.9	0.6	0.1		9	1	0.1		3.7	0.6	0.1		0.3	0.2	0.07	J	3.7	0.6	0.08	
RMB-WST37A	B1.11660H	Surface waste sample from Red Mud Disposal Area B	3.6	0.5	0.1		10	1	0.1		3.6	0.6	0.1		0.2	0.1	0.06	J	3.8	0.6	0.07	
RMB-WST37B	B1.11661J	Subsurface waste sample from Red Mud Disposal Area B; depth = 8'	4.8	0.7	0.1		15	2	0.1		4.5	0.7	0.1		0.2	0.1	0.07	J	3.7	0.6	0.06	
FBS-WST43A	B1.11720C	Surface waste red mud sample from drainage channel behind Former Bauxite Storage shed	0.9	0.2	0.1		4	1	0.1		1.1	0.3	0.1		0.1	0.1	0.09	J	0.9	0.2	0.05	
RMA-SD57	B1.11721D	*Sample from red mud depositional area south of Area A*	1.8	0.3	0.1		10	1	0.1		1.2	0.3	0.1		0.1	0.1	0.11	U	1.2	0.3	0.07	
RMA-SD58	B1.11722E	*Sample from red mud depositional area south of Area A*	1.5	0.3	0.1		6	1	0.1		1.2	0.3	0.1		0.1	0.1	0.08	U	1.3	0.3	0.09	
RMA-SD59	B1.11723F	*Sample from red mud depositional area south of Area A*	1.7	0.3	0.1		9	1	0.1		1.3	0.3	0.05		0.1	0.1	0.07	J	1.4	0.3	0.06	
RMA-SD60	B1.11724G	*Sample from red mud depositional area south of Area A*	1.8	0.4	0.1		8	1	0.1		1.5	0.3	0.1		0.2	0.1	0.06	J	1.5	0.3	0.06	
RMA-SD61	B1.11725H	*Sample from red mud depositional area south of Area A*	0.6	0.2	0.1		4	1	0.1		0.5	0.2	0.1		0.1	0.1	0.06	J	0.5	0.2	0.06	
RMA-SD62	B1.11726J	*Sample from red mud depositional area south of Area A*	1.4	0.3	0.1		8	1	0.1		1.3	0.3	0.1		0.1	0.1	0.07	J	1.2	0.3	0.08	
RMA-SD63	B1.11727K	*Duplicate of RMA-SD62*	1.4	0.3	0.1		9	1	0.1		1.5	0.3	0.1		0.1	0.1	0.06	U	1.3	0.3	0.07	
RMA-SD63	B1.11727K (DUP)	*Lab duplicate of RMA-SD63*	1.2	0.3	0.1		8	1	0.1		1.3	0.3	0.1		0.1	0.1	0.06	J	1.1	0.3	0.07	
RMA-WST06B(2)	B1.11728L	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	2.9	0.5	0.1		11	1	0.1		1.8	0.4	0.1		0.1	0.1	0.06	J	2.1	0.4	0.05	
RMA-WST08B	B1.11729M	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	3.1	0.5	0.1		12	1	0.1		2.7	0.5	0.1		0.2	0.1	0.11	J	2.3	0.5	0.06	

Table 5-9B: Alpha Spectroscopy Analyses Results of Surface and Subsurface Waste and Sediment Samples																					
Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230				Th-232				U-234				U-235				U-238			
			Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag	Result (pCi/g)	2 sigma	MDC	Val. Flag
RMA-WST18B	B1.11730E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	3.4	0.6	0.1		15	2	1		3.5	0.6	0.1		0.2	0.1	0.11	J	3.0	0.5	0.08	

J - reported value is estimated
(DUP) - Laboratory Duplicate

U - isotope was not detected above the noted MDC

Table 5-9C

Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples With Background Subtracted

Table 5-9C: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
ADP-SD49	B1.11619G	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	0.5	0.7	1.2	0.6	1.0	1.6	0.6	0.0	0.5
ADP-WST41A	B1.11405U	Surface waste sample from Ash Disposal area	1.5	0.6	2.1	1.1	0.6	1.6	1.2	0.1	1.2
ADP-WST41B	B1.11406V	Subsurface waste sample from Ash Disposal area; depth = 4'	0.6	0.2	0.8	0.3	0.3	0.6	0.4	0.0	0.3
ADP-WST41C	B1.11407W	Field duplicate of ADP-WST41B	0.4	0.4	0.8	0.5	0.4	0.9	0.5	0.0	0.3
ADP-WST41C	B1.11407W (DUP)	Lab duplicate of ADP-WST41C	0.7	0.3	1.1	NA	NA	NA	0.6	0.0	0.5
ADP-WST42A	B1.11408X	Surface waste sample from Ash Disposal area	1.9	0.7	2.5	1.3	0.6	1.9	1.3	0.0	1.2
ADP-WST42B	B1.11409Y	Subsurface waste sample from Ash Disposal area; depth = 4'	1.3	0.4	1.6	1.0	0.5	1.4	0.9	0.0	0.9
FBS-WST43A	B1.11720C	Surface waste red mud sample from drainage channel behind Former Bauxite Storage shed	0.9	3.9	4.8	0.7	4.4	5.1	0.8	0.1	0.6
FBS-WST44A	B1.11410Q	Surface waste red mud sample from pile in Former Bauxite Storage shed	0.6	4.9	5.4	0.8	5.7	6.6	0.6	0.0	0.4
FBS-WST44A	B1.11410Q (DUP)	Lab duplicate of FBS-WST44A	NA	NA	NA	0.8	5.7	6.5	NA	NA	NA
FBS-WST45A	B1.11411R	Surface waste red mud sample from pile in Former Bauxite Storage shed	2.3	10.0	12.4	1.8	10.1	11.9	2.3	0.0	2.2
FBS-WST46A	B1.11412T	Surface waste red mud sample from pile in Former Bauxite Storage shed	1.5	7.2	8.6	1.1	7.2	8.3	1.0	0.0	1.0
LCP-SD33	B1.11631C	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	0.3	0.1	0.4	-0.2	-0.1	-0.3	3.5	0.2	3.1
RMA-SD57	B1.11721D	*Sample from red mud depositional area south of Area A*	1.8	9.3	11.1	2.4	10.9	13.2	1.0	0.1	1.0
RMA-SD58	B1.11722E	*Sample from red mud depositional area south of Area A*	1.5	6.1	7.6	1.7	7.2	8.9	1.0	0.0	1.1
RMA-SD59	B1.11723F	*Sample from red mud depositional area south of Area A*	1.2	8.4	9.6	2.8	11.1	13.8	1.1	0.1	1.2
RMA-SD60	B1.11724G	*Sample from red mud depositional area south of Area A*	1.8	7.7	9.5	2.3	10.5	12.7	1.3	0.1	1.3
RMA-SD61	B1.11725H	*Sample from red mud depositional area south of Area A*	0.6	3.5	4.1	0.5	4.4	4.9	0.3	0.1	0.2
RMA-SD61	B1.11725H (DUP)	*Lab duplicate of RMA-SD61*	NA	NA	NA	0.5	4.5	5.0	NA	NA	NA
RMA-SD62	B1.11726J	*Sample from red mud depositional area south of Area A*	1.4	7.9	9.3	2.0	10.0	12.0	1.1	0.1	0.9

Table 5-9C: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
RMA-SD63	B1.11727K	*Field duplicate of RMA-SD62*	0.9	9.1	10.0	1.9	8.9	10.7	1.3	0.0	1.0
RMA-SD63	B1.11727K (DUP)	*Lab duplicate of RMA-SD63*	1.2	7.8	9.0	NA	NA	NA	1.1	0.1	0.8
RMA-WST01A	B1.11274B	Surface waste sample from Red Mud Disposal Area A	0.5	8.4	8.9	1.3	9.5	10.9	1.0	0.0	0.8
RMA-WST01B	B1.11425Y	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	1.5	4.8	6.2	2.7	11.1	13.8	0.9	0.1	1.1
RMA-WST01C	B1.11426Z	Duplicate of RMA-WST01B	2.6	10.2	12.8	2.7	10.7	13.3	2.5	0.1	2.2
RMA-WST02A	B1.11275C	Surface waste sample from Red Mud Disposal Area A	3.4	13.2	16.7	2.9	13.2	16.1	2.7	0.1	3.0
RMA-WST02A	B1.11275C (DUP)	Lab duplicate of WST02A	3.5	12.7	16.3	NA	NA	NA	2.6	0.1	3.0
RMA-WST02B	B1.11641E	Subsurface waste sample from Red Mud Disposal Area A; depth = 2-4'	2.7	11.9	14.7	3.1	14.3	17.3	3.1	0.2	2.6
RMA-WST03A	B1.11276D	Surface waste sample from Red Mud Disposal Area A	3.3	13.7	17.1	3.1	14.0	17.1	3.7	0.2	3.7
RMA-WST03B	B1.11427A	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	3.4	12.3	15.7	3.1	14.5	17.6	2.0	0.1	2.4
RMA-WST04A	B1.11277E	Surface waste sample from Red Mud Disposal Area A	2.1	10.9	13.0	2.4	11.1	13.4	2.1	0.2	2.5
RMA-WST04B	B1.11642F	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	2.5	9.6	12.0	2.0	11.0	12.9	2.0	0.1	2.0
RMA-WST05A	B1.11643G	Surface waste sample from Red Mud Disposal Area A	4.2	14.3	18.5	3.6	15.6	19.1	3.7	0.2	3.9
RMA-WST05B	B1.11644H	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	2.9	12.4	15.4	3.4	16.0	19.4	2.8	0.1	3.2
RMA-WST06A	B1.11278F	Surface waste sample from Red Mud Disposal Area A	3.9	12.0	15.9	3.5	12.2	15.7	4.1	0.3	3.3
RMA-WST06B	B1.11645J	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	3.1	11.5	14.6	4.2	14.6	18.7	1.2	0.1	1.3
RMA-WST06B(2)	B1.11728L	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	2.9	10.5	13.4	3.7	12.8	16.4	1.5	0.1	1.9
RMA-WST07A	B1.11279G	Surface waste sample from Red Mud Disposal Area A	3.2	12.3	15.6	3.0	13.4	16.4	4.7	0.2	3.6
RMA-WST07B	B1.11646K	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	5.8	15.7	21.5	6.3	17.6	23.9	6.3	0.2	5.6
RMA-WST08A	B1.11647L	Surface waste sample from Red Mud Disposal Area A	3.0	11.7	14.8	2.4	11.8	14.2	2.5	0.1	2.6
RMA-WST08B	B1.11729M	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	3.1	11.5	14.7	3.4	15.4	18.8	2.5	0.2	2.0

Table 5-9C: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
RMA-WST09A	B1.11280Z	Surface waste sample from Red Mud Disposal Area A	2.0	9.3	11.2	2.3	12.3	14.6	1.9	0.1	2.0
RMA-WST09A	B1.11280Z (DUP)	Lab duplicate of RMA-WST09A	NA	NA	NA	2.3	12.2	14.4	NA	NA	NA
RMA-WST09B	B1.11281A	Subsurface waste sample from Red Mud Disposal Area A; depth = 7'	3.0	13.2	16.3	3.8	15.6	19.4	3.2	0.1	3.2
RMA-WST10A	B1.11648M	Surface waste sample from Red Mud Disposal Area A	2.4	10.1	12.5	2.0	10.7	12.6	1.7	0.2	2.0
RMA-WST10B	B1.11428B	Subsurface waste sample from Red Mud Disposal Area A; depth = 5-6'	2.8	15.2	18.0	2.6	16.0	18.6	2.4	0.1	2.2
RMA-WST11A	B1.11282B	Surface waste sample from Red Mud Disposal Area A	3.6	13.1	16.8	3.5	14.3	17.8	3.3	0.2	2.8
RMA-WST11B	B1.11649N	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	3.4	12.7	16.1	3.1	15.2	18.3	2.4	0.1	2.9
RMA-WST11C	B1.11650F	Duplicate of RMA-WST11A	3.0	12.4	15.4	3.6	15.6	19.1	3.0	0.1	3.2
RMA-WST12A	B1.11283C	Surface waste sample from Red Mud Disposal Area A	3.3	15.7	19.0	3.2	18.8	22.0	2.5	0.1	2.4
RMA-WST12B	B1.11429C	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	4.0	21.4	25.4	3.9	23.3	27.1	3.3	0.2	2.8
RMA-WST13A	B1.11632D	Surface waste sample from Red Mud Disposal Area A	3.6	12.6	16.3	2.8	12.2	14.9	2.6	0.1	2.5
RMA-WST13B	B1.11633E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	4.5	12.1	16.6	4.3	13.9	18.1	3.5	0.2	3.4
RMA-WST14A	B1.11284D	Surface waste sample from Red Mud Disposal Area A	1.8	8.7	10.5	2.5	11.1	13.6	1.2	0.1	1.2
RMA-WST14A	B1.11284D (DUP)	Lab duplicate of RMA-WST14A	1.8	9.0	10.8	NA	NA	NA	1.4	0.1	1.1
RMA-WST14B	B1.11285E	Subsurface waste sample from Red Mud Disposal Area A; depth = 3.5'	2.3	10.1	12.4	1.9	10.7	12.6	1.4	0.0	1.7
RMA-WST15A	B1.11286F	Surface waste sample from Red Mud Disposal Area A	1.9	8.8	10.8	2.2	10.6	12.8	1.1	0.1	1.2
RMA-WST16A	B1.11287G	Surface waste sample from Red Mud Disposal Area A	2.3	9.3	11.6	2.8	12.4	15.2	1.4	0.0	1.8
RMA-WST16B	B1.11288H	Subsurface waste sample from Red Mud Disposal Area A; depth = 7.5'	1.9	10.4	12.3	2.8	12.4	15.2	1.6	0.1	2.0
RMA-WST17A	B1.11289J	Surface waste sample from Red Mud Disposal Area A	2.9	10.2	13.1	3.0	13.0	16.0	2.6	0.1	2.3
RMA-WST17B	B1.11290B	Subsurface waste sample from Red Mud Disposal Area A; depth = 3'	2.7	8.4	11.0	2.7	11.4	14.1	1.3	0.1	1.9

Table 5-9C: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
RMA-WST18A	B1.11291C	Surface waste sample from Red Mud Disposal Area A	3.8	13.5	17.4	3.6	14.9	18.5	5.9	0.3	5.5
RMA-WST18B	B1.11730E	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	2.9	14.5	17.4	3.4	16.4	19.8	3.2	0.2	2.7
RMA-WST19A	B1.11292D	Surface waste sample from Red Mud Disposal Area A	3.3	12.2	15.6	3.2	14.3	17.4	2.8	0.2	2.5
RMA-WST19B	B1.11651G	Subsurface waste sample from Red Mud Disposal Area A; depth = 5'	2.2	7.6	9.8	2.7	12.0	14.6	2.7	0.2	2.0
RMA-WST20A	B1.11293E	Surface waste sample from Red Mud Disposal Area A	3.6	12.0	15.7	3.0	14.5	17.5	4.0	0.1	3.5
RMA-WST20B	B1.11634F	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	2.0	11.4	13.5	2.5	12.6	15.1	1.9	0.0	1.4
RMA-WST20B	B1.11634F (DUP)	Lab duplicate of RMA-WST20B	2.5	10.3	12.8	NA	NA	NA	2.0	0.1	1.9
RMA-WSTR01A	B1.11635G	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	3.0	14.0	17.0	4.4	16.5	20.8	1.9	0.2	1.4
RMA-WSTR02A	B1.11636H	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	3.0	13.2	16.2	3.3	14.1	17.3	1.9	0.0	2.2
RMB-WST22A	B1.11652H	Surface waste sample from Red Mud Disposal Area B; sandy red mud	6.6	11.3	17.9	7.1	13.5	20.6	4.2	0.3	4.1
RMB-WST22B	B1.11653J	Subsurface waste sample from Red Mud Disposal Area B; sandy red mud; depth = 10'	3.4	6.7	10.1	4.2	8.4	12.6	3.6	0.1	3.3
RMB-WST23A	B1.11654K	Surface waste sample from Red Mud Disposal Area B	3.0	10.0	13.0	4.5	13.0	17.5	2.8	0.2	2.6
RMB-WST23B	B1.11655L	Subsurface waste sample from Red Mud Disposal Area B; granular material; depth = 7.5'	3.9	6.7	10.7	4.5	9.3	13.8	4.0	0.2	3.7
RMB-WST23C	B1.11656M	Duplicate of RMB-WST23B	3.4	7.6	11.0	4.1	8.4	12.5	3.6	0.2	3.5
RMB-WST24A	B1.11413U	Surface waste sample from Red Mud Disposal Area B	3.2	7.9	11.1	3.2	8.5	11.7	1.9	0.0	1.6
RMB-WST28A	B1.11414V	Surface waste sample from Red Mud Disposal Area B	4.7	20.4	25.1	5.0	23.6	28.5	2.1	0.2	2.5

Table 5-9C: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
RMB-WST28B	B1.11657N	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	6.7	11.0	17.8	6.8	14.0	20.8	6.0	0.4	6.2
RMB-WST29A	B1.11415W	Surface waste sample from Red Mud Disposal Area B	3.1	6.9	10.0	2.6	7.4	10.0	2.0	0.0	1.4
RMB-WST29B	B1.11658P	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5'	5.6	10.0	15.6	5.6	12.3	17.8	6.1	0.4	6.3
RMB-WST30A	B1.11416X	Surface waste sample from Red Mud Disposal Area B	4.5	16.9	21.4	4.5	21.0	25.5	3.0	0.1	3.1
RMB-WST30B	B1.11417Y	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	9.3	13.5	22.8	8.8	16.1	24.9	4.6	0.3	4.6
RMB-WST32A	B1.11418Z	Surface waste sample from Red Mud Disposal Area B	1.7	5.4	7.1	2.0	6.4	8.4	3.0	0.2	2.8
RMB-WST34A	B1.11419A	Surface waste sample from Red Mud Disposal Area B	3.0	8.3	11.3	3.7	9.2	12.9	1.5	0.1	0.9
RMB-WST34B	B1.11659Q	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5-4'	3.9	8.6	12.6	4.7	13.0	17.6	3.5	0.3	3.5
RMB-WST36A	B1.11420T	Surface waste sample from Red Mud Disposal Area B	5.2	18.4	23.6	4.5	21.4	25.8	2.7	0.2	2.5
RMB-WST37A	B1.11660H	Surface waste sample from Red Mud Disposal Area B	3.6	9.6	13.2	4.7	11.9	16.6	3.4	0.2	3.6
RMB-WST37A	B1.11660H (DUP)	Lab duplicate of RMB-WST37A	NA	NA	NA	4.9	11.9	16.8	NA	NA	NA
RMB-WST37B	B1.11661J	Subsurface waste sample from Red Mud Disposal Area B; depth = 8'	4.4	14.5	18.9	4.3	15.8	20.0	4.2	0.2	3.5
RMB-WST38A	B1.11421U	Surface waste sample from Red Mud Disposal Area B	4.6	20.2	24.8	4.6	24.2	28.8	3.1	0.1	3.0
RMB-WST39A	B1.11422V	Surface waste sample from Red Mud Disposal Area B	3.9	10.8	14.8	4.2	11.8	16.0	2.6	0.1	2.9
RMB-WST39B	B1.11423W	Subsurface waste sample from Red Mud Disposal Area B; depth = 3'	5.5	15.3	20.9	4.7	19.1	23.8	5.2	0.2	4.6
RMB-WST40A	B1.11424X	Surface waste sample from Red Mud Disposal Area B; red sand area	1.1	9.8	10.9	0.6	9.0	9.7	0.8	0.0	0.6
RMS-SD45	B1.11637J	Sediment sample from same location as RMS-SW45; red clay with some silt and fine sand	1.6	9.7	11.3	2.9	12.1	15.0	1.8	0.1	1.6
UCP-SD35	B1.11638K	Sediment sample from same location as UCP-SW35; red mud in mud flat sediments	0.9	2.4	3.4	0.2	2.0	2.2	3.1	0.1	2.5

Table 5-9C: Net Radiological Analyses Results of Surface and Subsurface Waste and Sediment Samples with Background Subtracted

Field Sample ID	Lab Sample ID	Sample Type and Location	Th-230[(a)] pCi/g	Th-232[(a)] pCi/g	Sum of Thorium	Ra-226[(b)] pCi/g	Ra-228[(b)] pCi/g	Sum of Radium	U-234[(a)] pCi/g	U-235[(a)] pCi/g	U-238[(a)] pCi/g
UCP-SD37	B1.11639L	Sediment sample from same location as UCP-SW37; red mud, heavy silting	2.2	6.6	8.7	1.4	7.0	8.5	2.5	0.1	2.6
UCP-SD39	B1.11640D	Sediment sample from same location as UCP-SW39; red clay with some fine sand, soft	2.7	9.5	12.2	2.8	12.5	15.2	2.6	0.2	2.3
UCP-SD39	B1.11640D (DUP)	Lab duplicate of UCP-SD39	NA	NA	NA	2.8	12.8	15.6	NA	NA	NA

(a) Isoptoic analyses results as reported in Table 5-9B.
(b) Gamma spectroscopy analyses Results as reported in Table 5-9A.
(DUP) - Laboratory Duplicate

Table 5-10

Radiological Results of Surface Water and Groundwater Samples

Table 5-10: Radiological Results of Surface Water and Ground-water Samples

Field Sample ID	Lab Sample ID	Sample Type and Location	Ra-226				Ra-228				Sum of Radium[a]	U-234				U-235				U-238				Tot-U pCi/L[b]	Tot-U µg/L[c]	Th-230				Th-232			
			Result (pCi/L)	2 sigma	MDC	Val. Flag	Result (pCi/L)	2 sigma	MDC	Val. Flag		Result (pCi/L)	2 sigma	MDC	Val. Flag	Result (pCi/L)	2 sigma	MDC	Val. Flag	Result (pCi/L)	2 sigma	MDC	Val. Flag			Result (pCi/L)	2 sigma	MDC	Val. Flag	Result (pCi/L)	2 sigma	MDC	Val. Flag
RMA-SW57	B1.11662K	Storm water runoff from culvert at Red Mud Disposal Area A	6	4	2		21	5	6	J	27	5.1	1.0	0.2		0.1	0.2	0.2	U	3.5	0.8	0.3		8.73	5.85	0.54	0.29	0.20		3.40	0.71	0.20	
RMA-SW57	B1.11662K (DUP)	Lab duplicate of RMA-SW57	6	3	2		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
RMS-SW45	B1.11663L	Surface water sample from Settling Pond	1.4	0.6	0.4		16	5	6	J	18	9	1	0.2		0.5	0.3	0.3		5	1	0.2		15.31	10.25	0.54	0.30	0.21		1.66	0.51	0.16	
SW-RMA-WST12	B1.11665N	Water sample from ponded water at waste sample location RMA-WST12	0.5	0.4	0.3		5	2	3	J	6	5	1	0.3		0.2	0.2	0.2	U	2.5	0.6	0.2		8.08	5.41	0.10	0.14	0.15	U	0.31	0.22	0.15	
UCP-SW35	B1.11666P	Surface water sample from Upper Cooling Pond	0.2	0.1	0.1		1.0	0.5	0.7	J	1.2	1.2	0.4	0.2		0.1	0.1	0.2	U	1.0	0.4	0.1		2.21	1.48	0.13	0.14	0.13	U	0.11	0.14	0.18	U
UCP-SW35	B1.11666P (DUP)	Lab duplicate of UCP-SW35	0.2	0.1	0.1		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
UCP-SW39	B1.11667Q	Surface water sample from Upper Cooling Pond	0.7	0.4	0.3		10	4	5	J	11	1.9	0.6	0.3		0.3	0.3	0.2		1.4	0.5	0.2		3.53	2.37	0.4	0.3	0.3		1.8	0.6	0.2	
SCA-GW01	B1.11664M	Unfiltered ground water sample from monitoring well VW37	0.1	0.1	0.1		0	1	1	U	0	1.1	0.4	0.2	J	0.1	0.2	0.3		0.6	0.3	0.2		1.80	1.21	-0.02	0.15	0.39	U	0.22	0.31	0.44	U
SCA-GW05	B1.11668R	Unfiltered ground water sample from monitoring well GM-13D	0.3	0.3	0.3	U	0.6	0.4	0.7	U	0.9	0.5	0.3	0.2	J	0.1	0.1	0.2	U	0.4	0.2	0.2		1.00	0.67	0.2	0.2	0.1		-0.02	0.07	0.20	U
SCA-GW06	B1.11669T	Unfiltered ground water sample from monitoring well GM-22	0.3	0.4	0.6	U	0.5	0.8	1.4	U	0.8	0.9	0.4	0.1	J	0.1	0.1	0.2	U	0.6	0.3	0.2		1.55	1.04	0.1	0.1	0.1	U	0.03	0.09	0.13	U
SCA-GW08	B1.11670K	Unfiltered ground water sample from monitoring well GM-14	0.3	0.1	0.1		0.8	0.5	0.8	U	1.1	0.5	0.3	0.2	J	0.1	0.2	0.2	U	1.1	0.4	0.2		1.71	1.15	-0.01	0.08	0.21	U	-0.01	0.08	0.21	U
SCA-GW10	B1.11671L	Unfiltered ground water sample from monitoring well GM-18	0.3	0.4	0.6	U	1	2	3	U	0.9	0.9	0.4	0.1	J	0.3	0.2	0.2		1.3	0.4	0.2		2.42	1.62	0.02	0.09	0.17	U	0.02	0.09	0.17	U
WST-RIN01	B1.11672M	Unfiltered ground water sample from monitoring well VW37	0.0	0.1	0.1	U	0	1	1	U	0.2	0.2	0.2	0.1	J	0.3	0.2	0.2		0.1	0.1	0.2	U	0.57	0.38	0.0	0.1	0.2	U	0.01	0.09	0.20	U
WST-RIN01	B1.11672M (DUP)	Lab duplicate of WST-RIN01	NA	NA	NA	NA	-0.1	0.5	0.9	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SCA-GW02	B1.11673N	Unfiltered ground water sample from monitoring well G-9	0.1	0.1	0.1	U	0.8	0.5	0.8	U	0.9	0.1	0.1	0.1	U	0.1	0.2	0.3	U	0.3	0.2	0.2		0.56	0.38	0.1	0.1	0.18	U	0.05	0.11	0.18	U
SCA-GW07	B1.11674P	Unfiltered ground water sample from monitoring well VW25	0.2	0.1	0.1		0.7	0.5	0.8	U	1.0	1.6	0.4	0.3		0.3	0.2	0.3	U	0.1	0.4	0.2		1.95	1.31	0.1	0.1	0.13	U	0.00	0.06	0.13	U
SCA-GW07	B1.11674P(DUP)	Lab duplicate of SCA-GW07	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.4	0.4	0.2		0.0	0.1	0.2	U	1.4	0.4	0.2		2.79	1.87	0.03	0.08	0.12	U	-0.03	0.07	0.20	U

NA - Not Applicable U - Isotope was not detected above the noted MDC J - reported value is estimated

(DUP) - Laboratory Duplicate

(a) Sum of radium 226 and radium 228.

(b) Sum of uranium 234, uranium 235 and uranium 238.

(c) Activity to mass conversion factors range from 0.67 to 1.5 pCi/µg (USEPA 2000. National Primary Drinking Water Regulations; Final Rule 65 FR 236; December 7, 2000) and the major challenge is to determine which factor is most appropriate to use to calculate an exposure point concentration for compliance monitoring or to use in a human health risk assessment. Ideally the activity to mass ratio should be calculated for each water supply but if this is not possible, there is a health protective approach to evaluate compliance with the regulatory level. A two-tiered approach can be used to initially screen for compliance with the regulatory level. The first tier involves using a conservative activity to mass ratio of 0.67 pCi/µg to convert activity units in pCi to mass units in µg. The second tier would be to determine the actual activity to mass ratio for a particular water supply. For our screening purpose the first tier was used. If concentrations are less than 30 µg/L, then the uranium MCL has been met and no need to go to the second tier.

WESTON SOLUTIONS, INC.
205 CAMPUS DRIVE
EDISON, NEW JERSEY 08837
732-417-5800 • FAX: 732-417-5801

The Trusted Integrator for Sustainable Solutions

October 20, 2011

Mr. Ildefonso Acosta, Work Assignment Manager
U.S. Environmental Protection Agency
290 Broadway - 18th Floor
New York, NY 10007-1866

Document Control No.: 1455-2A-ARGD

Subject: **Sampling Trip Report**
Work Assignment No. 1455, St. Croix Alumina (Renaissance Park)
Contract No.: EP-S5-06-04, TDD No.: S05-0013-1104-030

Dear Mr. Acosta:

Weston Solutions, Inc. (WESTON®) is pleased to submit the complete Sampling Trip Report for the Expanded Site Inspection and Removal Assessment at the St. Croix Alumina (Renaissance Park) site, including the revised Sample Location Map. WESTON Site Assessment Team and Removal Support Team personnel collected soil, sediment, groundwater, surface water, and waste samples from locations on and within the vicinity of the site from September 12-21, 2011. CLP samples were collected under Case No. 41746. If you have any questions, please contact me at (732) 417-5826.

Very truly yours,

WESTON SOLUTIONS, INC.

Gerald V. Gilliland, P.G.
Senior Technical Manager

enclosure

cc: D. Rosoff, EPA
E. Knyfd, WESTON
C. Romano, EPA (w/o enclosure)
W.S. Butterfield, WESTON (w/o enclosure)
Site files

SAMPLING TRIP REPORT

SITE NAME: St. Croix Alumina (Renaissance Park)
DCN: 1455-2A-ARGD
W.O.: 20405.012.013.1455.00
CLP Case No.: 41746

EPA I.D. NO.: VIN000206465

SAMPLING DATES: September 12-21, 2011

1. Site Location: Refer to Figure 1

2. Sample Locations: Refer to Figure 2

3. Sample Descriptions: Refer to Table 1

4. Laboratories Receiving Samples:

Sample Type & No.	Name and Address of Laboratory
TCL Volatiles (VOCs), TCL Semivolatiles (SVOCs),and TCL Aroclors	Chemtech Consulting Group (CHEM) 284 Sheffield St. Mountainside, NJ 07092
TAL Inorganics including mercury (Hg), Total Organic Carbon (TOC), Chlorides, Particle Size	USEPA Region 2 Laboratory (EPA-DESA) 2890 Woodbridge Avenue Building 209, MS 230 Edison, NJ 08837
Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U and Ra-226/Ra-228/Total Uranium/Isotopic Thorium	USEPA National Air and Radiation Environmental Laboratory (EPA-NAREL) 540 S. Morris Avenue Montgomery, AL 36115

5. Sample Dispatch Data (also see Tables 2, 3, and 4):

- Seven soil samples for TAL Inorganics (including Hg), three aqueous samples for Chlorides and TAL Inorganics (including Hg), and three sediment samples for Particle Size, TOC, and TAL Inorganics (including Hg) were shipped to the EPA-DESA laboratory on 09/12/11 at 1630 hours via Federal Express Airbill No. 8736 9394 8787.

- Twelve aqueous samples for Chlorides and TAL Inorganics (including Hg), thirteen sediment samples for Particle Size, TOC, and TAL Inorganics (including Hg), and one aqueous sample for TAL Inorganics (including Hg) were shipped to the EPA-DESA laboratory on 09/13/11 at 1645 hours via Federal Express Airbill No. 8747 3102 7524.
- Three soil samples, three aqueous samples, and three sediment samples for TCL SVOCs and TCL Aroclors were shipped to the Chemtech Consulting Group laboratory on 09/13/11 at 1645 hours via Federal Express Airbill No. 8736 9394 8798.
- Four aqueous samples for Chlorides and TAL Inorganics (including Hg), and four sediment samples for TOC and TAL Inorganics (including Hg) were shipped to the EPA-DESA laboratory on 09/14/11 at 1645 hours via Federal Express Airbill No. 8736 9394 8802.
- Two aqueous samples and two sediment samples for TCL SVOCs and TCL Aroclors were shipped to the Chemtech Consulting Group laboratory on 09/14/11 at 1645 hours via Federal Express Airbill No. 8736 9394 8813.
- Twenty-five aqueous samples for Chlorides and TAL Inorganics (including Hg) and twenty-one sediment samples for TOC and TAL Inorganics (including Hg) were shipped to the EPA-DESA laboratory on 09/15/11 at 1645 hours via Federal Express Airbill No. 8747 3102 7535.
- Three aqueous samples and four sediment samples for TCL SVOCs and TCL Aroclors were shipped to the Chemtech Consulting Group laboratory on 09/15/11 at 1645 hours via Federal Express Airbill No. 8736 9394 5170.
- Four aqueous samples for Chlorides and TAL Inorganics (including Hg), nine sediment samples for TOC and TAL Inorganics (including Hg), and thirty-seven sediment samples for Particle Size were shipped to the EPA-DESA laboratory on 09/16/11 at 1645 hours via Federal Express Airbill No. 8747 3102 7557.
- Two aqueous samples for Chlorides and TAL Inorganics (including Hg), and two aqueous samples for TAL Inorganics (including Hg) were shipped to the EPA-DESA laboratory on 09/16/11 at 1645 hours via Federal Express Airbill No. 8747 3102 4694.
- Two aqueous samples for TCL SVOCs and TCL Aroclors were shipped to the Chemtech Consulting Group laboratory on 09/16/11 at 1645 hours via Federal Express Airbill No. 8747 3102 7546.
- Seventeen waste samples for TAL Inorganics (including Hg) were shipped as Dangerous Goods, for having a pH greater than 11, to the EPA-DESA laboratory on 09/19/11 at 1400 hours via Federal Express Airbill No. 8683 1599 4729.
- Seventeen waste samples for TAL Inorganics (including Hg), and three sediment samples for TOC and TAL Inorganics (including Hg) were shipped to the EPA-DESA laboratory on 09/19/11 at 1645 hours via Federal Express Airbill No. 8747 3102 4710.
- Four waste samples for TCL SVOCs and TCL Aroclors were shipped as Dangerous Goods, for having a pH greater than 11, to the Chemtech Consulting Group laboratory on 09/19/11 at 1400 hours via Federal Express Airbill No. 8683 1599 4718.
- Three waste samples, one aqueous sample, and one sediment sample for TCL SVOCs and TCL Aroclors, three aqueous samples for TCL VOCs, and one aqueous sample for TCL VOCs, TCL SVOCs and TCL Aroclors were shipped to the Chemtech Consulting

Group laboratory on 09/19/11 at 1645 hours via Federal Express Airbill No. 8747 3102 4753.

- Twenty waste samples for Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U were shipped to the EPA-NAREL laboratory on 09/19/11 at 1645 hours via Federal Express Airbill No. 8747 3102 4731.
- Twenty-three waste samples for TAL Inorganics (including Hg) were shipped to the EPA-DESA laboratory on 09/20/11 at 1645 hours via Federal Express Airbill No. 8747 3102 4775.
- Six aqueous samples for TCL VOCs, four aqueous sample for TCL SVOCs and TCL Aroclors, and one aqueous sample for TCL VOCs, TCL SVOCs and TCL Aroclors, were shipped to the Chemtech Consulting Group laboratory on 09/20/11 at 1645 hours via Federal Express Airbill No. 8747 3102 4742.
- Twenty waste samples for Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U were shipped to the EPA-NAREL laboratory on 09/20/11 at 1645 hours via Federal Express Airbill No. 8747 3102 4764.
- Four waste samples, two aqueous samples, seven sediment samples, and one soil sample for TAL Inorganics (including Hg), and twenty-one aqueous samples for Chlorides and TAL Inorganics (including Hg) were shipped to the EPA-DESA laboratory on 09/21/11 at 1645 hours via Federal Express Airbill No. 8747 3102 4797.
- Five waste samples, one aqueous sample, four sediment samples, and one soil sample for TCL SVOCs and TCL Aroclors, and two aqueous samples for TCL VOCs were shipped to the Chemtech Consulting Group laboratory on 09/21/11 at 1645 hours via Federal Express Airbill No. 8747 3102 4786.
- Five waste samples for Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U were shipped as Dangerous Goods, for having a pH greater than 11, to the EPA-NAREL laboratory on 09/21/11 at 1400 hours via Federal Express Airbill No. 8683 1599 4740.
- Five waste samples, six sediment samples, and eleven soil samples for Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U were shipped to the EPA-NAREL laboratory on 09/21/11 at 1645 hours via Federal Express Airbill No. 8747 3102 4801.
- Twenty-one waste samples for Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U were shipped as Dangerous Goods, for having a pH greater than 11, to the EPA-NAREL laboratory on 09/21/11 at 0930 hours via Federal Express Airbill No. 8683 1599 4730.
- Ten waste samples for TAL Inorganics (including Hg) were shipped as Dangerous Goods, for having a pH greater than 11, to the EPA-DESA laboratory on 09/22/11 at 1000 hours via Federal Express Airbill No. 8683 1591 4158.
- One aqueous sample for Chlorides and TAL Inorganics (including Hg), and one aqueous sample for TAL Inorganics (including Hg), were shipped to the EPA-DESA laboratory on 09/22/11 at 1000 hours via Federal Express Airbill No. 8747 3102 6138.
- One aqueous sample for TCL VOCs and one aqueous sample for TCL SVOCs, TCL Aroclors, and TCL VOCs were shipped as Dangerous Goods, for having a pH greater than 11, to the Chemtech Consulting Group laboratory on 09/22/11 at 1000 hours via Federal Express Airbill No. 8683 1599 4751.
- Three waste samples for Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U were shipped

as Dangerous Goods, for having a pH greater than 11, to the EPA-NAREL laboratory on 09/22/11 at 1000 hours via Federal Express Airbill No. 8683 1591 4147.

- One waste sample and seven sediment samples for Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U were shipped to the EPA-NAREL laboratory on 09/22/11 at 1000 hours via Federal Express Airbill No. 8747 3102 6116.
- Thirteen aqueous samples for Ra-226/Ra-228/Total Uranium/Isotopic Thorium were shipped to the EPA-NAREL laboratory on 09/22/11 at 1300 hours via Federal Express Airbill No. 8658 6964 2224.

6. Sampling Personnel:

Name	**Organization**	**Site Duties**
Gerald Gilliland	WESTON	Project Leader/SAT Field Documentation
Edmund Knyfd, Jr.	WESTON	RST 2 Site Project Manager, RST Field Documentation, Dangerous Goods (DG) Shipping
Alex Byrum	WESTON	Site Health and Safety Coordinator (SHSC)
Daniel Carlson	WESTON	Sample Management Officer (SMO), DG Shipping
Joseph Schmidl	WESTON	Surface Water/Sediment/Groundwater Sampling, DG Shipping Advisor
Michele Lortz	WESTON	Surface Water/Sediment/Groundwater Sampling**,** Global Positioning System (GPS) Data Collection
Derrick Cobb	WESTON	Soil/Waste Sampling**,** Geologist – Soil Classification
Anthony Daniels	WESTON	Soil/Waste Sampling**,** GPS Data Collection
Ildefonso Acosta	EPA	Task Monitor (Remedial Branch)
David Rosoff	EPA	On- Scene Coordinator (Removal Branch)
Nidal Azzam	EPA	Senior Health Physicist
Cris D’Onofrio	EPA	OSC, Radioisotope Screening
Mike Ferriola	EPA	OSC, Radioisotope Screening

7. Additional Comments:

From September 12-21, 2011, WESTON personnel collected totals of 17 soil samples, 11 groundwater samples, 11 filtered groundwater samples, 52 surface water samples, 59 sediment samples, and 74 waste samples (the totals include environmental duplicate samples) from locations on and within the vicinity of the St. Croix Alumina (Renaissance Park) site.

WESTON logged sample locations electronically using GPS equipment and performed post-processing differential correction of the GPS data in accordance with EPA Region 2 GPS Standard Operating Procedures. The processed GPS data for all samples collected has been transferred to the Sample Location Map (Figure 2) using Geographic Information Systems.

Soil and waste samples were collected using dedicated, disposable plastic scoops and aluminum trays. Surface soil samples were collected from the 0- to 6-inch depth interval below ground surface, and surface waste samples were collected from the 0- to 3-inch depth interval, unless otherwise noted in Table 1. Subsurface soil and waste samples were retrieved from the depths noted in Table 1 with decontaminated bucket augers. All remaining soil or waste not used for laboratory analysis was discarded at the sampling location.

Surface water samples were collected directly into the required containers, without the use of sampling devices, by submerging the bottles. At each specific location where both surface water and sediment samples were collected, surface water samples were collected prior to sediment samples. Sediment samples were collected with dedicated, disposable plastic scoops and aluminum trays from the 0- to 6-inch depth interval, unless otherwise noted in Table 1. All remaining sediment not used for laboratory analysis was discarded at the sampling location.

Ground water samples were collected from existing on-site monitoring wells using low-flow sampling procedures. Wells were purged and sampled at a flow rate below 500 milliliters per minute (mL/min) with a bladder pump. Dedicated, disposable bladders and sample tubing were used for each well. During well purging, the following field indicator parameters were measured and recorded at 3- to 5-minute intervals: pH, temperature, dissolved oxygen (DO), and conductivity. Wells were purged until these indicator parameters stabilized for three consecutive readings. In-line analyzers and continuous readout displays were used. The bladder pump was decontaminated prior to sampling and between well sampling locations. Filtered ground water samples were collected through dedicated, disposable, 0.45-micron filter cartridges.

Five rinsate blanks were collected to demonstrate adequate decontamination of non-dedicated sampling equipment. Four trip blank samples (in conjunction with the groundwater samples for VOC analysis) were collected to demonstrate that atmospheric contaminants were not seeping into sample vials and that there was no cross-contamination between samples.

All samples were collected at the St. Croix Alumina (Renaissance Park) site as part of a combined Expanded Site Inspection and Removal Assessment with radiological measurements under the Region V Superfund Technical Assessment and Response Team III (START III)

contract and Removal Support Team 2 (RST 2) contract. Samples for TCL Organics analyses (TCL VOCs, TCL SVOCs, and TCL Aroclors) were shipped to CHEMTECH for analysis through the EPA Contract Laboratory Program (CLP) under Case No. 41746. Samples designated for TAL Inorganics (including Hg), Chlorides, TOC, and Particle Size analyses were shipped to the EPA-DESA laboratory for analysis. Samples designated for radiological analyses were shipped to the EPA-NAREL laboratory for analysis. The Chain-of-Custody Records and Federal Express Airbills are presented in Attachment 1.

8. Report Prepared by: _____ Date: 10/19/11
Gerald V. Gilliland, P.G.

9. Report Approved by: _____ Date: 10/19/11
W. Scott Butterfield, CHMM

FIGURE 1

SITE LOCATION MAP

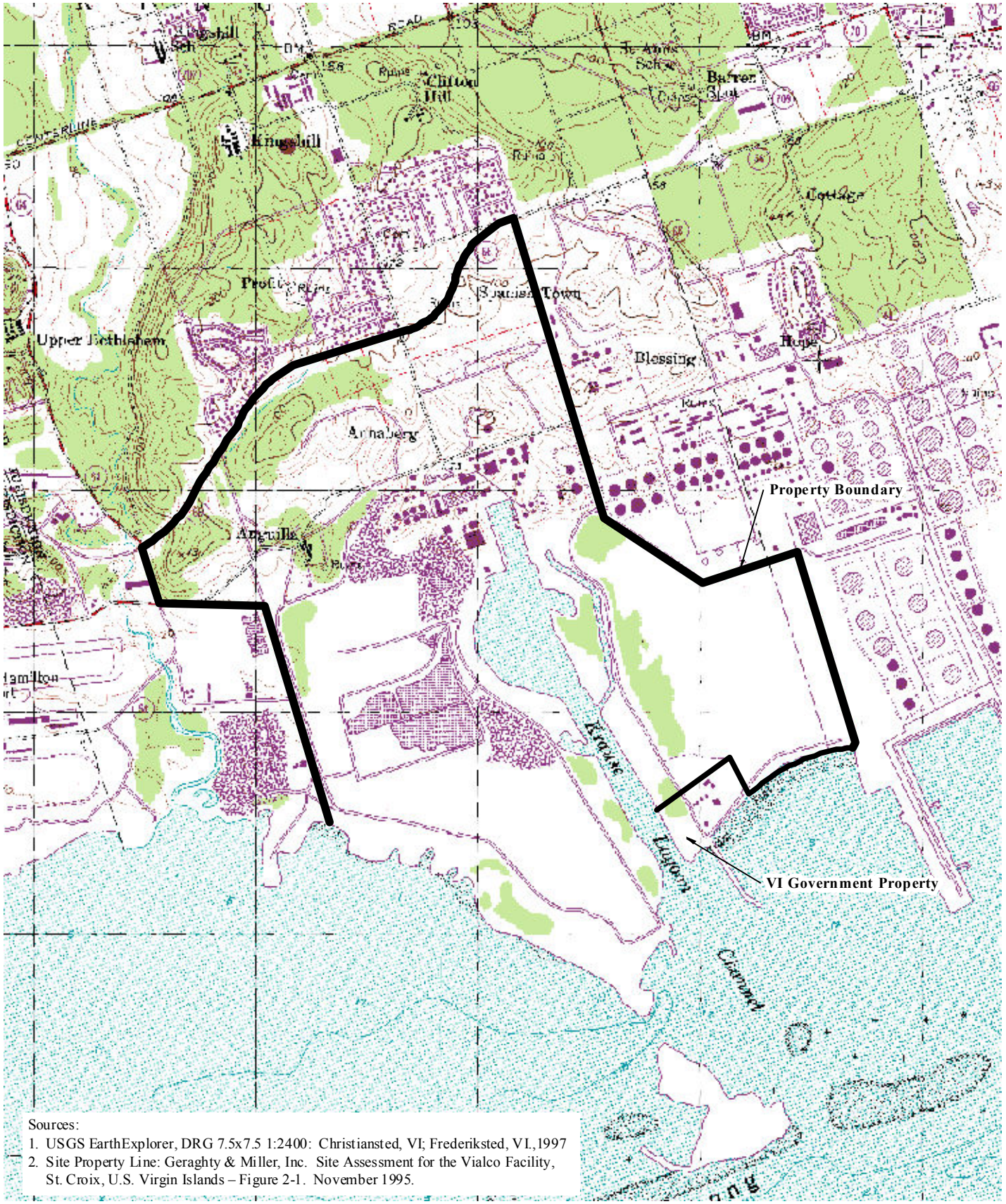
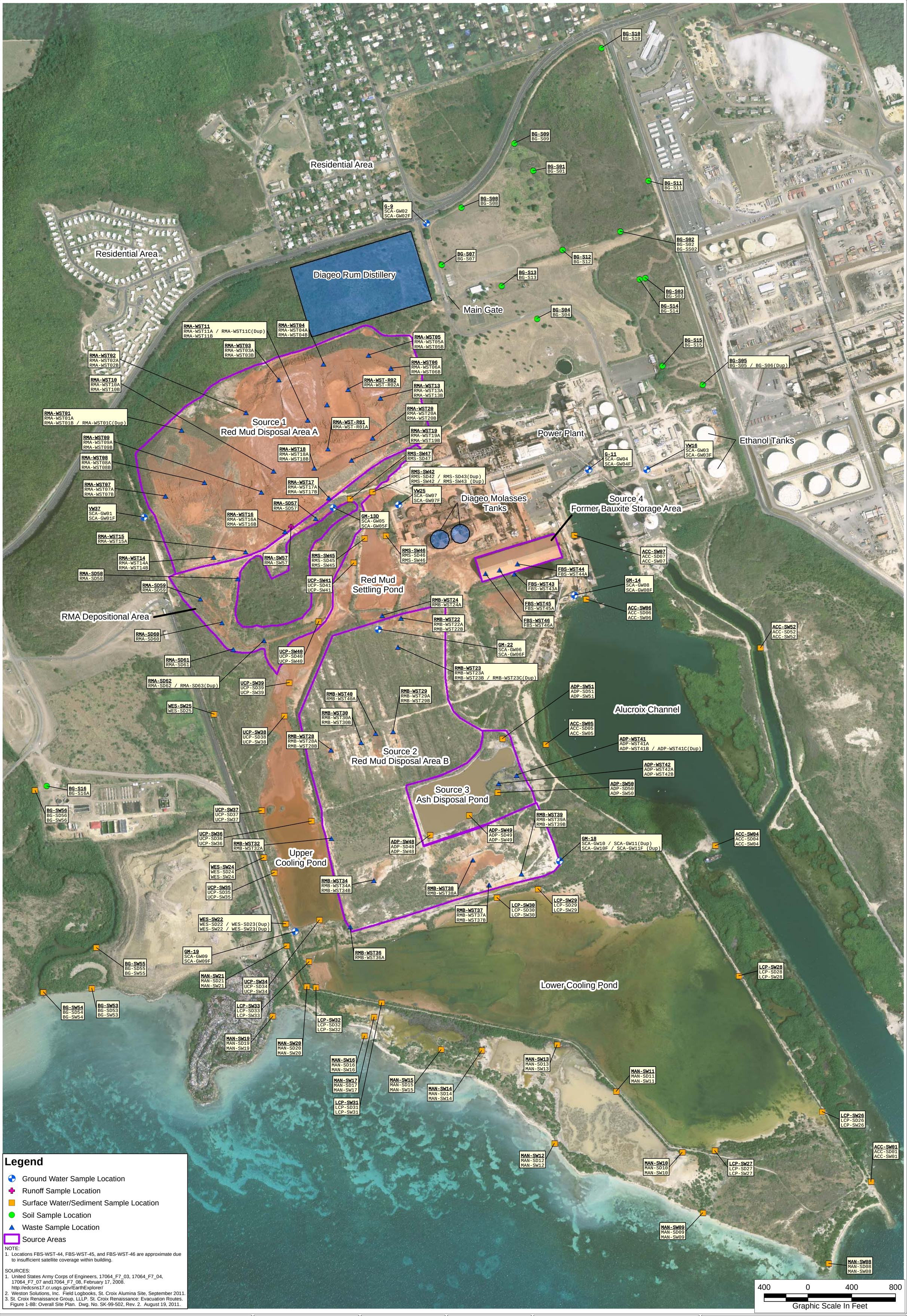

Property Boundary
VI Government Property
Upper Bethlehem
Blessing
Hope
Annaberg
Anguilla
Hamilton
Cottage
Barren Spot
Chimney Hill
Kingshill
Spanish Town
Profit
Estate
Estate
Estate

FIGURE 2

SAMPLE LOCATION MAP



Legend

- Ground Water Sample Location
- Runoff Sample Location
- Surface Water/Sediment Sample Location
- Soil Sample Location
- Waste Sample Location
- Source Areas

NOTE:
1. Locations FBS-WST-44, FBS-WST-45, and FBS-WST-46 are approximate due to insufficient satellite coverage within building.

SOURCES:
1. United States Army Corps of Engineers, 17064_F7_03, 17064_F7_04, 17064_F7_07 and17064_F7_08, February 17, 2008. http://edcsns17.cr.usgs.gov/EarthExplorer/
2. Weston Solutions, Inc. Field Logbooks, St. Croix Alumina Site, September 2011.
3. St. Croix Renaissance Group, LLLP. St. Croix Renaissance: Evacuation Routes. Figure 1-8B: Overall Site Plan. Dwg. No. SK-99-502, Rev. 2. August 19, 2011.

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N W E S

REPORT DATE: October 2011	PROJECT MANAGER: G. Gilliland	CLIENT NAME: EPA	DRAWING TITLE: Sample Location Map St. Croix Alumina (Renaissance Park) Kingshill, St. Croix. USVI
DRAWING: 10366_SCA_Sample_Loc_101811.mxd PATH: P:/SAT2/St. Croix Alumina (1455)/MXD/	CHECKED BY: A.Daniels		
REVISION No. 1	CONTRACT No. EP-S5-06-04 EP-W-06-72	PROJECT NAME: St. Croix Alumina (Renaissance Park)	FIGURE: 2 / SCALE: 1 " = 400 ' / DATE: 10/19/2011
TDD Nos.. S05-0013-1104-030 0024-0069	DRAWN/MODIFIED BY: J. Lynes DATE CREATED: 10/19/2011		

TABLE 1

SAMPLE INFORMATION

Table 1
Sample Information
St. Croix Alumina (Renaissance Park) Site
September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
Matrix: Soil										
BG-S01	9/12/2011	1000	Background surface soil sample from northeast portion of property	x	x	x				
BG-S02	9/12/2011	1035	Background surface soil sample from northeast portion of property		x					
BG-S03	9/12/2011	1300	Background surface soil sample from northeast portion of property		x					
BG-S04	9/12/2011	1347	Background surface soil sample from northeast portion of property		x					
BG-S05	9/12/2011	1330	Background surface soil sample from northeast portion of property		x	x				
BG-S06	9/12/2011	1335	Duplicate of BG-S05		x	x				
~~BG-SS01~~	NO SAMPLE - REFUSAL AT 4"									
BG-SS02	9/12/2011	1050	Background surface soil sample from northeast portion of property		x					
~~BG-SS03~~	NO SAMPLE - REFUSAL AT 6"									
~~BG-SS04~~	NO SAMPLE - REFUSAL AT 6"									
~~BG-SS05~~	NO SAMPLE - REFUSAL AT 6"									
BG-S07	*9/20/2011*	*1650*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S08	*9/20/2011*	*1700*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S09	*9/20/2011*	*1710*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S10	*9/20/2011*	*1715*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S11	*9/20/2011*	*1720*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S12	*9/20/2011*	*1725*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S13	*9/20/2011*	*1730*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S14	*9/20/2011*	*1740*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S15	*9/20/2011*	*1745*	*Background surface soil sample from northeast portion of property*	*x*						
BG-S16A	*9/21/2011*	*810*	*Background soil sample near River Gut, west of site; surface sample for radiological testing; subsurface sample (depth = 3.5') for TAL and TCL parameters*	*x*	*x*	*x*				
Matrix: Waste										
RMA-WST01A	9/16/2011	1040	Surface waste sample from Red Mud Disposal Area A	x	x	x				
RMA-WST01B	9/16/2011	1040	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	x	x	x				
RMA-WST01C	9/16/2011	1045	Duplicate of RMA-WST01B	x	x	x				
RMA-WST02A	9/15/2011	910	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST02B	9/15/2011	1135	Subsurface waste sample from Red Mud Disposal Area A; depth = 2-4'	x	x					
RMA-WST03A	9/15/2011	1030	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST03B	9/15/2011	1430	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	x	x					

Note:
~~Strikethrough~~ indicates samples proposed but not collected.
Italics indicates samples added during the field sampling event.

Table 1
Sample Information
St. Croix Alumina (Renaissance Park) Site
September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
RMA-WST04A	9/15/2011	1055	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST04B	9/15/2011	1451	Subsurface waste sample from Red Mud Disposal Area A; depth = 4'	x	x					
RMA-WST05A	9/15/2011	1530	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST05B	9/15/2011	1522	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	x	x					
RMA-WST06A	9/15/2011	1545	Surface waste sample from Red Mud Disposal Area A	x	x	x				
RMA-WST06B	9/15/2011	1545	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	x	x	x				
RMA-WST07A	9/16/2011	950	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST07B	9/16/2011	950	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	x	x					
RMA-WST08A	9/16/2011	925	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST08B	9/16/2011	935	Subsurface waste sample from Red Mud Disposal Area A; depth = 4.5'	x	x					
RMA-WST09A	9/16/2011	915	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST09B	9/16/2011	915	Subsurface waste sample from Red Mud Disposal Area A; depth = 7'	x	x					
RMA-WST10A	9/16/2011	1100	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST10B	9/16/2011	1105	Subsurface waste sample from Red Mud Disposal Area A; depth = 5-6'	x	x					
RMA-WST11A	9/16/2011	1120	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST11C	9/16/2011	1125	Duplicate of RMA-WST11A	x	x					
RMA-WST11B	9/16/2011	1120	Subsurface waste sample from Red Mud Disposal Area A; depth = 8'	x	x					
RMA-WST12A	9/15/2011	1120	Surface waste sample from Red Mud Disposal Area A	x	x	x				
RMA-WST12B	9/15/2011	1500	Subsurface waste sample from Red Mud Disposal Area A; depth = 3-4'	x	x	x				
RMA-WST13A	9/15/2011	1615	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST13B	9/15/2011	1615	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	x	x					
RMA-WST14A	9/16/2011	1450	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST14B	9/16/2011	1450	Subsurface waste sample from Red Mud Disposal Area A; depth = 3.5'	x	x					
RMA-WST15A	9/16/2011	1435	Surface waste sample from Red Mud Disposal Area A	x	x					
~~RMA-WST15B~~	NO SAMPLE - HAND AUGER REFUSAL									
RMA-WST16A	9/16/2011	1415	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST16B	9/16/2011	1415	Subsurface waste sample from Red Mud Disposal Area A; depth = 7.5'	x	x					
RMA-WST17A	9/16/2011	1400	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST17B	9/16/2011	1400	Subsurface waste sample from Red Mud Disposal Area A; depth = 3'	x	x					
RMA-WST18A	9/15/2011	1700	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST18B	9/15/2011	1700	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	x	x					

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Table 1
Sample Information
St. Croix Alumina (Renaissance Park) Site
September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
RMA-WST19A	9/16/2011	900	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST19B	9/16/2011	900	Subsurface waste sample from Red Mud Disposal Area A; depth = 5'	x	x					
RMA-WST20A	9/15/2011	1635	Surface waste sample from Red Mud Disposal Area A	x	x					
RMA-WST20B	9/15/2011	1640	Subsurface waste sample from Red Mud Disposal Area A; depth not recorded	x	x					
~~RMB-WST21A~~	NO SAMPLE - FIELD DECISION DUE TO PRESENCE OF CALICHE									
~~RMB-WST21B~~	NO SAMPLE - FIELD DECISION DUE TO PRESENCE OF CALICHE									
~~RMB-WST21C~~	NO SAMPLE - FIELD DECISION DUE TO PRESENCE OF CALICHE									
RMB-WST22A	9/19/2011	1520	Surface waste sample from Red Mud Disposal Area B; sandy red mud	x	x					
RMB-WST22B	9/19/2011	1522	Subsurface waste sample from Red Mud Disposal Area B; sandy red mud; depth = 10'	x	x					
RMB-WST23A	9/19/2011	1555	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST23B	9/19/2011	1700	Subsurface waste sample from Red Mud Disposal Area B; granular material; depth = 7.5'	x	x					
RMB-WST23C	9/19/2011	1710	Duplicate of RMB-WST23B	x	x					
RMB-WST24A	9/19/2011	1740	Surface waste sample from Red Mud Disposal Area B	x	x					
~~RMB-WST24B~~	NO SAMPLE - WATER AT 2"									
~~RMB-WST25A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST25B~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST26A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST26B~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST27A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST27B~~	NOT COLLECTED - FIELD DECISION									
RMB-WST28A	9/19/2011	1230	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST28B	9/19/2011	1230	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	x	x					
RMB-WST29A	9/19/2011	1135	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST29B	9/19/2011	1135	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5'	x	x					
RMB-WST30A	9/19/2011	1210	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST30B	9/19/2011	1210	Subsurface waste sample from Red Mud Disposal Area B; depth = 4'	x	x					
~~RMB-WST31A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST31B~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST31C~~	NOT COLLECTED - FIELD DECISION									
RMB-WST32A	9/19/2011	1245	Surface waste sample from Red Mud Disposal Area B	x	x					
~~RMB-WST32B~~	NO SAMPLE - REFUSAL AT 8-12" - CALICHE									

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St. Croix Alumina (Renaissance Park) Site
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Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
~~RMB-WST33A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST33B~~	NOT COLLECTED - FIELD DECISION									
RMB-WST34A	9/19/2011	935	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST34B	9/19/2011	935	Subsurface waste sample from Red Mud Disposal Area B; depth = 3.5-4'	x	x					
~~RMB-WST35A~~	NOT COLLECTED - FIELD DECISION									
~~RMB-WST35B~~	NOT COLLECTED - FIELD DECISION									
RMB-WST36A	9/19/2011	920	Surface waste sample from Red Mud Disposal Area B	x	x	x				
~~RMB-WST36B~~	NO SAMPLE - REFUSAL AT 24" - CALICHE									
RMB-WST37A	9/19/2011	810	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST37B	9/19/2011	810	Subsurface waste sample from Red Mud Disposal Area B; depth = 8'	x	x					
RMB-WST38A	9/19/2011	835	Surface waste sample from Red Mud Disposal Area B	x	x					
~~RMB-WST38B~~	NO SAMPLE - WATER AT 4-6"									
RMB-WST39A	9/19/2011	800	Surface waste sample from Red Mud Disposal Area B	x	x					
RMB-WST39B	9/19/2011	800	Subsurface waste sample from Red Mud Disposal Area B; depth = 3'	x	x					
RMB-WST40A	9/19/2011	1200	Surface waste sample from Red Mud Disposal Area B; red sand area	x	x					
~~RMB-WST40B~~	NO SAMPLE - REFUSAL AT 24" - CALICHE									
ADP-WST41A	9/19/2011	1015	Surface waste sample from Ash Disposal area	x	x					
ADP-WST41B	9/19/2011	1015	Subsurface waste sample from Ash Disposal area; depth = 4'	x	x	x				
ADP-WST41C	9/19/2011	1020	Duplicate of ADP-WST41C	x	x	x				
ADP-WST42A	9/19/2011	1035	Surface waste sample from Ash Disposal area	x	x	x				
ADP-WST42B	9/19/2011	1035	Subsurface waste sample from Ash Disposal area; depth = 4'	x	x	x				
FBS-WST43A	9/21/2011	1000	Surface waste red mud sample from drainage channel behind Former Bauxite Storage shed	x	x					
~~FBS-WST43B~~	NO SAMPLE - REFUSAL AT 6-8" - CALICHE									
FBS-WST44A	9/20/2011	925	Surface waste red mud sample from pile in Former Bauxite Storage shed	x	x					
~~FBS-WST44B~~	NO SAMPLE - ALUMINA BENEATH RED MUD AT 6-12"									
FBS-WST45A	9/20/2011	935	Surface waste red mud sample from pile in Former Bauxite Storage shed	x	x					
~~FBS-WST45B~~	NO SAMPLE - ALUMINA BENEATH RED MUD AT 14"									
FBS-WST46A	9/20/2011	950	Surface waste red mud sample from pile in Former Bauxite Storage shed	x	x					
~~FBS-WST46B~~	NO SAMPLE - ALUMINA BENEATH RED MUD AT 8-12"									
RMA-WSTR01A	*9/21/2011*	*900*	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	*x*						
RMA-WSTR02A	*9/21/2011*	*915*	*Surface waste sample from Red Mud Disposal Area A, at location of elevated radiation survey reading*	*x*						

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St. Croix Alumina (Renaissance Park) Site
September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
Matrix: Surface Water										
ACC-SW01	9/13/2011	952	Surface water sample from AluCroix Channel		x	x		x		
~~ACC-SW02~~	NOT COLLECTED - INACCESSIBLE									
~~ACC-SW03~~	NOT COLLECTED - INACCESSIBLE									
ACC-SW04	9/13/2011	1012	Surface water sample from AluCroix Channel		x			x		
ACC-SW05	9/13/2011	1107	Surface water sample from AluCroix Channel		x			x		
ACC-SW06	9/13/2011	1135	Surface water sample from AluCroix Channel		x			x		
ACC-SW07	9/13/2011	1147	Surface water sample from AluCroix Channel		x	x		x		
MAN-SW08	9/12/2011	1615	Surface water sample from coastal area		x			x		
MAN-SW09	9/12/2011	1045	Surface water sample from coastal area		x			x		
MAN-SW10	9/12/2011	1120	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW11	9/12/2011	1145	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW12	9/12/2011	1412	Surface water sample from coastal area		x			x		
MAN-SW13	9/12/2011	1530	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW14	9/12/2011	1715	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW15	9/12/2011	1700	Surface water sample from coastal mangrove swamp		x			x		
MAN-SW16	9/12/2011	1430	Surface water sample from coastal area		x	x		x		
MAN-SW17	9/14/2011	1022	Surface water sample from coastal mangrove swamp		x			x		
~~MAN-SW18~~	NOT COLLECTED - FIELD DECISION									
MAN-SW19	9/15/2011	1012	Surface water sample from coastal area		x			x		
MAN-SW20	9/14/2011	1130	Surface water sample from mangrove swamp along former West Ditch (milky, white film on water surface)		x			x		
MAN-SW21	9/14/2011	1230	Surface water sample from mangrove swamp along former West Ditch (milky, white film on water surface)		x			x		
WES-SW22	9/14/2011	1632	Surface water sample from West Ditch		x			x		
WES-SW23	9/14/2011	1633	Duplicate of WES-SW22		x			x		
WES-SW24	9/14/2011	1722	Surface water sample from West Ditch		x			x		
~~WES-SW25~~	NO SAMPLE - NO WATER AT LOCATION									
LCP-SW26	9/14/2011	1019	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW27	9/14/2011	957	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW28	9/14/2011	1035	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW29	9/14/2011	1051	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW30	9/14/2011	1133	Surface water sample from Lower Cooling Pond, at outfall from Red Mud Area B		x			x		

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St. Croix Alumina (Renaissance Park) Site
September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
LCP-SW31	9/14/2011	1044	Surface water sample from Lower Cooling Pond		x	x		x		
LCP-SW32	9/14/2011	1115	Surface water sample from Lower Cooling Pond		x			x		
LCP-SW33	9/14/2011	1200	Surface water sample from Lower Cooling Pond		x			x		
UCP-SW34	9/14/2011	1620	Surface water sample from Upper Cooling Pond		x			x		
UCP-SW35	9/14/2011	1700	Surface water sample from Upper Cooling Pond	x	x			x		
UCP-SW36	9/15/2011	1602	Surface water sample from Upper Cooling Pond		x	x		x		
UCP-SW37	9/14/2011	1738	Surface water sample from Upper Cooling Pond		x			x		
UCP-SW38	9/15/2011	1734	Surface water sample from Upper Cooling Pond		x			x		
UCP-SW39	9/14/2011	1720	Surface water sample from Upper Cooling Pond	x	x			x		
UCP-SW40	9/14/2011	1740	Surface water sample from Upper Cooling Pond		x			x		
UCP-SW41	9/14/2011	1805	Surface water sample from Upper Cooling Pond		x			x		
RMS-SW42	9/15/2011	901	Surface water sample from Settling Pond		x			x		
RMS-SW43	9/15/2011	902	Duplicate of RMS-SW42		x			x		
~~RMS-SW44~~	NOT COLLECTED - FIELD DECISION									
RMS-SW45	9/14/2011	1817	Surface water sample from Settling Pond	x	x	x		x		
RMS-SW46	9/15/2011	825	Surface water sample from Settling Pond		x			x		
~~RMS-SW47~~	NO SAMPLE - NO WATER AT LOCATION									
ADP-SW48	9/14/2011	1218	Surface water sample from Ash Disposal Pond		x			x		
ADP-SW49	9/14/2011	1205	Surface water sample from Ash Disposal Pond		x			x		
ADP-SW50	9/14/2011	1248	Surface water sample from Ash Disposal Pond		x	x		x		
ADP-SW51	9/14/2011	1318	Surface water sample from Ash Disposal Pond		x			x		
ACC-SW52	9/13/2011	1212	Surface water sample from intake arm on east side of AluCroix Channel		x			x		
BG-SW53	9/13/2011	1422	Background surface water sample from coastal area west of site		x	x		x		
BG-SW54	9/13/2011	1412	Background surface water sample from mouth of River Gut, west of site		x			x		
BG-SW55	9/13/2011	1447	Background surface water sample from River Gut, west of site		x	x		x		
BG-SW56	9/13/2011	1515	Background surface water sample from River Gut, west of site		x			x		
SW-RMA-WST12	*9/15/2011*	*1500*	*Water sample from ponded water at waste sample location RMA-WST12*	*x*						
RMA-SW57	*9/20/2011*	*1315*	*Storm water runoff from culvert at Red Mud Disposal Area A*	*x*	*x*	*x*				
Matrix: Sediment										
ACC-SD01	9/13/2011	957	Sediment sample from same location as ACC-SW01; yellow, coarse to fine sand with shell fragments		x	x			x	x
~~ACC-SD02~~	NOT COLLECTED - INACCESSIBLE									

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				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
~~ACC-SD03~~	NOT COLLECTED - INACCESSIBLE									
ACC-SD04	9/13/2011	1020	Sediment sample from same location as ACC-SW04; yellow, coarse to fine sand with shell fragments		x				x	x
ACC-SD05	9/13/2011	1110	Sediment sample from same location as ACC-SW05; brown silt and fine sand with organic root matter		x				x	x
ACC-SD06	9/13/2011	1140	Sediment sample from same location as ACC-SW06; yellow coarse to fine sand		x				x	x
ACC-SD07	9/13/2011	1150	Sediment sample from same location as ACC-SW07; yellow coarse to fine sand		x	x			x	x
MAN-SD08	9/12/2011	1620	Sediment sample from same location as MAN-SW08; yellow coarse to fine sand with shell pieces		x				x	x
MAN-SD09	9/12/2011	1047	Sediment sample from same location as MAN-SW09; yellow/tan coarse to fine sand with shell pieces		x				x	x
MAN-SD10	9/12/2011	1125	Sediment sample from same location as MAN-SW10; brown medium to fine sand with some clay and silt		x				x	x
MAN-SD11	9/12/2011	1147	Sediment sample from same location as MAN-SW11; brown fine sand with silt and clay		x				x	x
MAN-SD12	9/12/2011	1415	Sediment sample from same location as MAN-SW12; yellow/tan coarse to fine sand with some shell fragments		x				x	x
MAN-SD13	9/12/2011	1533	Sediment sample from same location as MAN-SW13; brown fine sand and silt with some clay		x				x	x
MAN-SD14	9/12/2011	1720	Sediment sample from same location as MAN-SW14; brown silt and clay with some fine sand		x				x	x
MAN-SD15	9/12/2011	1705	Sediment sample from same location as MAN-SW15; brown silt and clay with some fine sand		x				x	x
MAN-SD16	9/12/2011	1435	Sediment sample from same location as MAN-SW16; yellow coarse to fine sand with some shell pieces		x	x			x	x
MAN-SD17	9/14/2011	1025	Sediment sample from same location as MAN-SW17; yellow coarse sand w/shell fragments, mixed with red mud		x				x	x
~~MAN-SD18~~	NOT COLLECTED - FIELD DECISION									
MAN-SD19	9/15/2011	1016	Sediment sample from same location as MAN-SW19; yellow coarse to fine sand with shell fragments		x				x	x
MAN-SD20	9/14/2011	1140	Sediment sample from same location as MAN-SW20; red to dk-gray muck		x				x	x
MAN-SD21	9/14/2011	1235	Sediment sample from same location as MAN-SW21; medium-gray-brown muck		x				x	x
WES-SD22	9/14/2011	1637	Sediment sample from same location as WES-SW22; red mud in brown sediments		x				x	x
WES-SD23	9/14/2011	1638	Duplicate of WES-SD22		x				x	x
WES-SD24	9/14/2011	1727	Sediment sample from same location as WES-SW24; brown/black organic sediments		x				x	x
WES-SD25	9/15/2011	1657	Sediment sample from northern end of West Ditch; red silt and fine sand with some clay; no water at location		x				x	x
LCP-SD26	9/14/2011	1021	Sediment sample from same location as LCP-SW26; light-brown fine sand and silt with some pebbles		x				x	x
LCP-SD27	9/14/2011	1000	Sediment sample from same location as LCP-SW27; brown silt and fine sand with some clay and organics		x				x	x
LCP-SD28	9/14/2011	1037	Sediment sample from same location as LCP-SW28; yellow coarse to fine sand		x				x	x
LCP-SD29	9/14/2011	1054	Sediment sample from same location as LCP-SW29; brown medium to fine sand with some silt		x				x	x
LCP-SD30	9/14/2011	1136	Sediment sample from same location as LCP-SW30; brown silt, clay and some fine sand		x				x	x
LCP-SD31	9/14/2011	1050	Sediment sample from same location as LCP-SW31; thin red-mud film at surface, brown to dark-gray muck		x	x			x	x
LCP-SD32	9/14/2011	1120	Sediment sample from same location as LCP-SW32; red to brown muck		x				x	x
LCP-SD33	9/14/2011	1205	Sediment sample from same location as LCP-SW33; dense red mud nodules, 0-3"	x	x				x	x

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				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
UCP-SD34	9/14/2011	1625	Sediment sample from same location as UCP-SW34; red mud bank near spillway		x				x	x
UCP-SD35	9/14/2011	1705	Sediment sample from same location as UCP-SW35; red mud in mud flat sediments	x	x	x			x	x
UCP-SD36	9/15/2011	1605	Sediment sample from same location as UCP-SW36; red silt, clay, and fine sand		x	x			x	x
UCP-SD37	9/14/2011	1743	Sediment sample from same location as UCP-SW37; red mud, heavy silting	x	x				x	x
UCP-SD38	9/15/2011	1736	Sediment sample from same location as UCP-SW38; red fine sand, silt and clay		x				x	x
UCP-SD39	9/14/2011	1725	Sediment sample from same location as UCP-SW39; red clay with some fine sand, soft	x	x				x	x
UCP-SD40	9/14/2011	1745	Sediment sample from same location as UCP-SW40; red clay with trace fine sand, soft		x				x	x
UCP-SD41	9/14/2011	1810	Sediment sample from same location as UCP-SW41; red clay with some silt and fine sand		x				x	x
RMS-SD42	9/15/2011	907	Sediment sample from same location as RMS-SW42; red clay and silt with some fine sand		x				x	x
RMS-SD43	9/15/2011	908	Duplicate of RMS-SD42		x				x	x
~~RMS-SD44~~	NOT COLLECTED - FIELD DECISION									
RMS-SD45	9/14/2011	1820	Sediment sample from same location as RMS-SW45; red clay with some silt and fine sand	x	x	x			x	x
RMS-SD46	9/15/2011	828	Sediment sample from same location as RMS-SW46; red clay with some fine sand and silt		x				x	x
RMS-SD47	9/15/2011	855	Sediment sample from same location as RMS-SW47; red clay with some fine sand and silt; no water at location		x				x	x
ADP-SD48	9/14/2011	1220	Sediment sample from same location as ADP-SW48; yellow coarse to fine sand		x				x	x
ADP-SD49	9/14/2011	1207	Sediment sample from same location as ADP-SW49; black silt and clay with some fine sand	x	x				x	x
ADP-SD50	9/14/2011	1251	Sediment sample from same location as ADP-SW50; brown silt and clay with some fine sand		x	x			x	x
ADP-SD51	9/14/2011	1320	Sediment sample from same location as ADP-SW51; brown silt and clay with some fine sand		x				x	x
ACC-SD52	9/13/2011	1215	Sediment sample from same location as ACC-SW52; yellow-brown coarse to fine sand		x				x	x
BG-SD53	9/13/2011	1425	Sediment sample from same location as BG-SW53; yellow coarse to fine sand		x	x			x	x
BG-SD54	9/13/2011	1415	Sediment sample from same location as BG-SW54; yellow coarse to fine sand		x				x	x
BG-SD55	9/13/2011	1453	Sediment sample from same location as BG-SW55; brown fine sand and silt		x	x			x	x
BG-SD56	9/13/2011	1518	Sediment sample from same location as BG-SW56; brown fine sand and silt		x				x	x
RMA-SD57	*9/21/2011*	*1025*	*Sample from red mud depositional area south of Area A*	*x*	*x*	*x*				
RMA-SD58	*9/21/2011*	*1038*	*Sample from red mud depositional area south of Area A*	*x*	*x*					
RMA-SD59	*9/21/2011*	*1055*	*Sample from red mud depositional area south of Area A*	*x*	*x*	*x*				
RMA-SD60	*9/21/2011*	*1105*	*Sample from red mud depositional area south of Area A*	*x*	*x*					
RMA-SD61	*9/21/2011*	*1115*	*Sample from red mud depositional area south of Area A*	*x*	*x*					
RMA-SD62	*9/21/2011*	*1120*	*Sample from red mud depositional area south of Area A*	*x*	*x*	*x*				
RMA-SD63	*9/21/2011*	*1130*	*Duplicate of RMA-SD62*	*x*	*x*	*x*				
Matrix: Ground Water										

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SCA-GW01	9/20/2011	1641	Unfiltered ground water sample from monitoring well VW37	x	x	x	x	x		
SCA-GW01F	9/20/2011	1641	Filtered ground water sample from monitoring well VW37		x					
SCA-GW02	9/19/2011	1125	Unfiltered ground water sample from monitoring well G-9	x	x		x	x		
SCA-GW02F	9/19/2011	1125	Filtered ground water sample from monitoring well G-9		x					
SCA-GW03	9/19/2011	1737	Unfiltered ground water sample from monitoring well VW16		x		x	x		
SCA-GW03F	9/19/2011	1737	Filtered ground water sample from monitoring well VW16		x					
SCA-GW04	9/19/2011	1406	Unfiltered ground water sample from monitoring well G-11		x	x	x	x		
SCA-GW04F	9/19/2011	1406	Filtered ground water sample from monitoring well G-11		x					
SCA-GW05	9/21/2011	915	Unfiltered ground water sample from monitoring well GM-13D	x	x		x	x		
SCA-GW05F	9/21/2011	915	Filtered ground water sample from monitoring well GM-13D		x					
SCA-GW06	9/21/2011	1155	Unfiltered ground water sample from monitoring well GM-22	x	x	x	x	x		
SCA-GW06F	9/21/2011	1155	Filtered ground water sample from monitoring well GM-22		x					
SCA-GW07	9/19/2011	1551	Unfiltered ground water sample from monitoring well VW25	x	x		x	x		
SCA-GW07F	9/19/2011	1551	Filtered ground water sample from monitoring well VW25		x					
SCA-GW08	9/20/2011	1042	Unfiltered ground water sample from monitoring well GM-14	x	x		x	x		
SCA-GW08F	9/20/2011	1042	Filtered ground water sample from monitoring well GM-14		x					
SCA-GW09	9/20/2011	1230	Unfiltered ground water sample from monitoring well GM-19		x		x	x		
SCA-GW09F	9/20/2011	1230	Filtered ground water sample from monitoring well GM-19		x					
SCA-GW10	9/20/2011	900	Unfiltered ground water sample from monitoring well GM-18	x	x	x	x	x		
SCA-GW10F	9/20/2011	900	Filtered ground water sample from monitoring well GM-18		x					
SCA-GW11	9/20/2011	905	Duplicate of SCA-GW10		x	x	x	x		
SCA-GW11F	9/20/2011	905	Duplicate of SCA-GW10F		x					
Matrix: Blanks										
WST-RIN01	9/15/2011	1825	Rinsate blank (hand auger)	x	x	x				
WST-RIN02	9/16/2011	1521	Rinsate blank (hand auger)		x	x				
MW-RIN03	9/19/2011	1900	Rinsate blank (bladder pump)		x	x	x	x		
WST-RIN05	9/19/2011	730	Rinsate blank (hand auger)		x	x				
SD-RIN06	9/12/2011	1410	Rinsate blank (hand auger)		x					
SCA-TB01	9/19/2011	1045	Trip blank				x			
SCA-TB02	9/19/2011	1800	Trip blank				x			
SCA-TB03	9/20/2011	1810	Trip blank				x			

Note:
~~Strikethrough~~ indicates samples proposed but not collected.
Italics indicates samples added during the field sampling event.

Table 1
Sample Information
St. Croix Alumina (Renaissance Park) Site
September 2011

Sample ID	Sample Date	Sample Time	Comments	Analyses						
				Radiological	TAL Inorganics	SVOCs/Aroclors	VOCs	Chlorides	TOC	Particle Size
SCA-TB04	9/21/2011	1515	Trip blank				x			

Note:
~~Strikethrough~~ indicates samples proposed but not collected.
Italics indicates samples added during the field sampling event.

TABLE 2

SAMPLE DISPATCH AND COC INFORMATION – CHEMTECH

Table 2
Sample Dispatch and COC Information - CHEMTECH
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	CLP Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/13/2011	873693948798	2-091311-151533-0004	ACC-SD01	B56Z5	9/13/2011	9:57	Sediment	CLP TCL Semivolatiles/Aroclors	MS/MSD
			ACC-SD07	B56Z8	9/13/2011	11:50	Sediment	CLP TCL Semivolatiles/Aroclors	
			ACC-SW07	B98S9	9/13/2011	11:47	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			BG-S01	B56Z1	9/12/2011	10:00	Soil	CLP TCL Semivolatiles/Aroclors	
			BG-S05	B56Z3	9/12/2011	13:30	Soil	CLP TCL Semivolatiles/Aroclors	
			BG-S06	B56Z4	9/12/2011	13:35	Soil	CLP TCL Semivolatiles/Aroclors	Field Duplicate of BG-S05
			MAN-SD16	B56Z9	9/12/2011	14:35	Sediment	CLP TCL Semivolatiles/Aroclors	
			MAN-SW16	B98N2	9/12/2011	14:30	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
		2-091311-151747-0005	ACC-SW01	B98S3	9/13/2011	9:52	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	MS/MSD
9/14/2011	873693948813	2-091411-110922-0008	BG-SD53	B5716	9/13/2011	14:25	Sediment	CLP TCL Semivolatiles/Aroclors	
			BG-SD55	B5717	9/13/2011	14:53	Sediment	CLP TCL Semivolatiles/Aroclors	
			BG-SW53	B98R9	9/13/2011	14:22	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			BG-SW55	B98S1	9/13/2011	14:47	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
9/15/2011	873693945170	2-091411-180133-0010	ADP-SD50	B5715	9/14/2011	12:51	Sediment	CLP TCL Semivolatiles/Aroclors	
			ADP-SW50	B98R6	9/14/2011	12:48	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			LCP-SD31	B5718	9/14/2011	10:50	Sediment	CLP TCL Semivolatiles/Aroclors	
			LCP-SW31	B98P7	9/14/2011	10:44	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
		2-091511-152733-0015	RMS-SD45	B5720	9/14/2011	18:20	Sediment	CLP TCL Semivolatiles/Aroclors	
			RMS-SW45	B98R1	9/14/2011	18:17	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			UCP-SD35	B5719	9/14/2011	17:05	Sediment	CLP TCL Semivolatiles/Aroclors	
9/16/2011	874731027546	2-091611-112835-0019	UCP-SW36	B5721	9/15/2011	16:02	Surface Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			WST-RIN01	B98L3	9/15/2011	18:25	QA/QC	CLP TCL Semivolatiles	Rinsate Blank
								CLP TCL Aroclors	
9/19/2011	868315994718	2-091911-091117-0024	RMA-WST01B	B5724	9/16/2011	10:40	Waste	CLP TCL Semivolatiles/Aroclors	pH > 11

Table 2
Sample Dispatch and COC Information - CHEMTECH
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	CLP Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
			RMA-WST01C	B5725	9/16/2011	10:45	Waste	CLP TCL Semivolatiles/Aroclors	Field Duplicate of RMA-WST01B
			RMA-WST06B	B5727	9/15/2011	15:45	Waste	CLP TCL Semivolatiles/Aroclors	pH > 11
			RMA-WST12B	B5729	9/15/2011	15:00	Waste	CLP TCL Semivolatiles/Aroclors	pH > 11
	874731024753	2-091611-161158-0022	RMA-WST01A	B5723	9/16/2011	10:40	Waste	CLP TCL Semivolatiles/Aroclors	MS/MSD
			RMA-WST06A	B5726	9/16/2011	15:45	Waste	CLP TCL Semivolatiles/Aroclors	
			RMA-WST12A	B5728	9/15/2011	11:20	Waste	CLP TCL Semivolatiles/Aroclors	
			UCP-SD36	B5722	9/15/2011	16:05	Sediment	CLP TCL Semivolatiles/Aroclors	
			WST-RIN02	B98L4	9/16/2011	15:21	QA/QC	CLP TCL Semivolatiles	Rinsate Blank
								CLP TCL Aroclors	
		2-091911-155948-0027	SCA-GW02	B98T2	9/19/2011	11:25	Ground Water	CLP TCL Volatiles	
			SCA-GW04	B98T6	9/19/2011	14:06	Ground Water	CLP TCL Semivolatiles	
								CLP TCL Volatiles	
								CLP TCL Aroclors	
			SCA-GW07	B98W2	9/19/2011	15:51	Ground Water	CLP TCL Volatiles	
			SCA-TB01	B98L9	9/19/2011	10:45	QA/QC	CLP TCL Volatiles	Trip Blank
9/20/2011	874731024742	2-092011-084645-0028	MW-RIN03	B98L5	9/19/2011	19:00	QA/QC	CLP TCL Volatiles	Rinsate Blank
								CLP TCL Semivolatiles	
								CLP TCL Aroclors	
			SCA-GW03	B98T4	9/19/2011	17:37	Ground Water	CLP TCL Volatiles	
			SCA-GW08	B98W4	9/20/2011	10:42	Ground Water	CLP TCL Volatiles	
			SCA-GW09	B98W6	9/20/2011	12:30	Ground Water	CLP TCL Volatiles	
			SCA-GW10	B98W8	9/20/2011	9:00	Ground Water	CLP TCL Volatiles	
			SCA-GW11	B98X0	9/20/2011	9:05	Ground Water	CLP TCL Volatiles	Field Duplicate of SCA-GW10
			SCA-TB02	B98M0	9/19/2011	18:00	QA/QC	CLP TCL Volatiles	Trip Blank
			WST-RIN05	B98L7	9/19/2011	7:30	QA/QC	CLP TCL Aroclors	Rinsate Blank
								CLP TCL Semivolatiles	

Table 2
Sample Dispatch and COC Information - CHEMTECH
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	CLP Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/20/2011 (cont'd)	874731024742 (cont'd)	2-092011-154832-0033	RMA-SW57	B4A18	9/20/2011	13:15	Surface Water	CLP TCL Aroclors	
								CLP TCL Semivolatiles	
			SCA-GW10	B98W8	9/20/2011	9:00	Ground Water	CLP TCL Aroclors	
								CLP TCL Semivolatiles	
			SCA-GW11	B98X0	9/20/2011	9:05	Ground Water	CLP TCL Aroclors	Field Duplicate of SCA-GW10
								CLP TCL Semivolatiles	
9/21/2011	874731024786	2-092111-105601-0035	SCA-GW01	B98T0	9/20/2011	16:41	Ground Water	CLP TCL Semivolatiles	
								CLP TCL Aroclors	MS/MSD
			SCA-GW05	B98T8	9/21/2011	9:15	Ground Water	CLP TCL Volatiles	
			SCA-TB03	B98M1	9/20/2011	18:10	QA/QC	CLP TCL Volatiles	Trip Blank
		2-092111-154225-0041	ADP-WST41B	B4A16	9/19/2011	10:15	Waste	CLP TCL Semivolatiles/Aroclors	
			ADP-WST41C	B4A17	9/19/2011	10:20	Waste	CLP TCL Semivolatiles/Aroclors	Field Duplicate of ADP-WST41B
			ADP-WST42A	B4A15	9/19/2011	10:35	Waste	CLP TCL Semivolatiles/Aroclors	MS/MSD
			ADP-WST42B	B4A25	9/19/2011	10:35	Waste	CLP TCL Semivolatiles/Aroclors	
			BG-S16A	B4A20	9/21/2011	8:10	Soil	CLP TCL Semivolatiles/Aroclors	
			RMA-SD57	B4A21	9/21/2011	10:25	Sediment	CLP TCL Semivolatiles/Aroclors	
			RMA-SD59	B4A22	9/21/2011	10:55	Sediment	CLP TCL Semivolatiles/Aroclors	
			RMA-SD62	B4A23	9/21/2011	11:20	Sediment	CLP TCL Semivolatiles/Aroclors	
			RMA-SD63	B4A24	9/21/2011	11:30	Sediment	CLP TCL Semivolatiles/Aroclors	Field Duplicate of RMA-SD62
			RMB-WST36A	B4A13	9/19/2011	9:20	Waste	CLP TCL Semivolatiles/Aroclors	
9/22/2011	868315994751	2-092111-151619-0039	SCA-GW06	B98W0	9/21/2011	11:55	Ground Water	CLP TCL Volatiles	pH > 11
								CLP TCL Semivolatiles	pH > 11
			SCA-TB04	B98M2	9/21/2011	15:15	QA/QC	CLP TCL Volatiles	Trip Blank
		2-092111-152631-0040	SCA-GW06	B98W0	9/21/2011	11:55	Ground Water	CLP TCL Aroclors	pH > 11

TABLE 3

SAMPLE DISPATCH AND COC INFORMTATION – DESA

Table 3
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/12/2011	873693948787	2-091211-154400-0001	BG-S01	9/12/2011	10:00	Soil	TAL Inorganics (incl. Hg)	
			BG-S02	9/12/2011	10:35	Soil	TAL Inorganics (incl. Hg)	
			BG-S03	9/12/2011	13:00	Soil	TAL Inorganics (incl. Hg)	
			BG-S04	9/12/2011	13:47	Soil	TAL Inorganics (incl. Hg)	
			BG-S05	9/12/2011	13:30	Soil	TAL Inorganics (incl. Hg)	
			BG-S06	9/12/2011	13:35	Soil	TAL Inorganics (incl. Hg)	Field Duplicate of BG-S05
			BG-SS02	9/12/2011	10:50	Soil	TAL Inorganics (incl. Hg)	
			MAN-SD09	9/12/2011	10:47	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD10	9/12/2011	11:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD11	9/12/2011	11:47	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SW09	9/12/2011	10:45	Surface Water	TAL Inorganics (incl. Hg)	Not preserved with HNO3
							Chlorides	
			MAN-SW10	9/12/2011	11:20	Surface Water	TAL Inorganics (incl. Hg)	Not preserved with HNO3
							Chlorides	
			MAN-SW11	9/12/2011	11:45	Surface Water	TAL Inorganics (incl. Hg)	Not preserved with HNO3
							Chlorides	
9/13/2011	874731027524	2-091311-090226-0002	MAN-SD08	9/12/2011	16:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD12	9/12/2011	14:15	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	

Table 3
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/13/2011 (cont'd)	874731027524 (cont'd)	2-091311-090226-0002 (cont'd))	MAN-SD13	9/12/2011	15:33	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD14	9/12/2011	17:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD15	9/12/2011	17:05	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SD16	9/12/2011	14:35	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			MAN-SW08	9/12/2011	16:15	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW12	9/12/2011	14:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW13	9/12/2011	15:30	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SD-RIN06	9/12/2011	14:10	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
		2-091311-151335-0003	ACC-SD01	9/13/2011	9:57	Sediment	TAL Inorganics (incl. Hg)	MS/MSD
							Total Organic Carbon	
							Particle Size	
			ACC-SD04	9/13/2011	10:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			ACC-SD05	9/13/2011	11:10	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			ACC-SD06	9/13/2011	11:40	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	

Table 3
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/13/2011 (cont'd)	874731027524 (cont'd)	2-091311-151335-0003 (cont'd)	ACC-SD07	9/13/2011	11:50	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
			ACC-SD52	9/13/2011	12:15	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
							Particle Size	
		2-091311-155400-0006	ACC-SW01	9/13/2011	9:52	Surface Water	TAL Inorganics (incl. Hg)	MS/MSD
							Chlorides	
			ACC-SW04	9/13/2011	10:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ACC-SW05	9/13/2011	11:07	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ACC-SW06	9/13/2011	11:35	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ACC-SW07	9/13/2011	11:47	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ACC-SW52	9/13/2011	12:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW14	9/12/2011	17:15	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW15	9/12/2011	17:00	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW16	9/12/2011	14:30	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
9/14/2011	873693948802	2-091411-110541-0007	BG-SD53	9/13/2011	14:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			BG-SD54	9/13/2011	14:15	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			BG-SD55	9/13/2011	14:53	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			BG-SD56	9/13/2011	15:18	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			BG-SW53	9/13/2011	14:22	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	

Table 3
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/14/2011 (cont'd)	873693948802 (cont'd)	2-091411-110541-0007 (cont'd)	BG-SW54	9/13/2011	14:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			BG-SW55	9/13/2011	14:47	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			BG-SW56	9/13/2011	15:15	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
9/15/2011	874731027535	2-091411-182630-0011	ADP-SW48	9/14/2011	12:18	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ADP-SW50	9/14/2011	12:48	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			ADP-SW51	9/14/2011	13:18	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			LCP-SW26	9/14/2011	10:19	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			LCP-SW27	9/14/2011	9:57	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			LCP-SW28	9/14/2011	10:55	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			LCP-SW29	9/14/2011	10:51	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			LCP-SW30	9/14/2011	11:33	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
		2-091511-113612-0012	LCP-SD31	9/14/2011	10:50	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD32	9/14/2011	11:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD33	9/14/2011	12:05	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SW31	9/14/2011	10:44	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			LCP-SW32	9/14/2011	11:15	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	

Table 3
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/15/2011 (cont'd)	874731027535 (cont'd)	2-091511-113612-0012 (cont'd)	LCP-SW33	9/14/2011	12:00	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SD17	9/14/2011	10:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			MAN-SD20	9/14/2011	11:40	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			MAN-SD21	9/14/2011	12:35	Sediment	TAL Inorganics (incl. Hg)	MS/MSD
							Total Organic Carbon	
			MAN-SW17	9/14/2011	10:22	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW20	9/14/2011	11:30	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			MAN-SW21	9/14/2011	12:30	Surface Water	TAL Inorganics (incl. Hg)	MS/MSD
							Chlorides	
		2-091511-125944-0013	UCP-SD34	9/14/2011	16:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SD35	9/14/2011	17:05	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SD37	9/14/2011	17:43	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SW39	9/14/2011	17:20	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW41	9/14/2011	18:05	Surface Water	TAL Inorganics (incl. Hg)	MS/MSD
							Chlorides	
			WES-SD22	9/14/2011	16:37	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			WES-SD23	9/14/2011	16:38	Sediment	TAL Inorganics (incl. Hg)	Field Duplicate of WES-SD22
							Total Organic Carbon	
			WES-SD24	9/14/2011	17:27	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	

Table 3
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/15/2011 (cont'd)	874731027535 (cont'd)	2-091511-134842-0014	ADP-SW49	9/14/2011	12:05	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			RMS-SW45	9/14/2011	18:17	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW34	9/14/2011	16:20	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW35	9/14/2011	17:00	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW37	9/14/2011	17:38	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW40	9/14/2011	17:40	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			WES-SW22	9/14/2011	16:32	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			WES-SW23	9/14/2011	16:33	Surface Water	TAL Inorganics (incl. Hg)	Field Duplicate of WES-SW22
							Chlorides	
			WES-SW24	9/14/2011	17:22	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
		2-091511-153211-0016	MAN-SD19	9/15/2011	10:16	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			RMS-SD42	9/15/2011	9:07	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			RMS-SD43	9/15/2011	9:08	Sediment	TAL Inorganics (incl. Hg)	Field Duplicate of RMS-SD42
							Total Organic Carbon	
			RMS-SD45	9/14/2011	18:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			RMS-SD46	9/15/2011	8:28	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			RMS-SD47	9/15/2011	8:55	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SD39	9/14/2011	17:25	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	

Table 3
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/15/2011 (cont'd)	874731027535 (cont'd)	2-091511-153211-0016 (cont'd)	UCP-SD40	9/14/2011	17:45	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			UCP-SD41	9/14/2011	18:10	Sediment	TAL Inorganics (incl. Hg)	MS/MSD
							Total Organic Carbon	
9/16/2011	874731024694	2-091611-095356-0018	UCP-SW36	9/15/2011	16:02	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			UCP-SW38	9/15/2011	19:34	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			WST-RIN01	9/15/2011	18:25	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
			WST-RIN02	9/16/2011	15:21	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
	874731027557	2-091411-111232-0009	ADP-SD50	9/14/2011	12:51	Sediment	Particle Size	
			BG-SD53	9/13/2011	14:25	Sediment	Particle Size	
			BG-SD54	9/13/2011	14:15	Sediment	Particle Size	
			BG-SD55	9/13/2011	14:53	Sediment	Particle Size	
			BG-SD56	9/13/2011	15:18	Sediment	Particle Size	
			LCP-SD28	9/14/2011	10:37	Sediment	Particle Size	
			LCP-SD30	9/14/2011	11:36	Sediment	Particle Size	
			LCP-SD31	9/14/2011	10:50	Sediment	Particle Size	
			LCP-SD32	9/14/2011	11:20	Sediment	Particle Size	
			LCP-SD33	9/14/2011	12:05	Sediment	Particle Size	
			MAN-SD17	9/14/2011	10:25	Sediment	Particle Size	
			MAN-SD20	9/14/2011	11:40	Sediment	Particle Size	
			MAN-SD21	9/14/2011	12:35	Sediment	Particle Size	
			UCP-SD36	9/15/2011	16:05	Sediment	Particle Size	
			UCP-SD38	9/16/2011	17:36	Sediment	Particle Size	
			WES-SD25	9/15/2011	16:57	Sediment	Particle Size	
		2-091611-084744-0017	ADP-SD48	9/14/2011	12:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			ADP-SD49	9/14/2011	12:07	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			ADP-SD50	9/14/2011	12:51	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	

Table 3
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/16/2011 (cont'd)	874731027557 (cont'd)	2-091611-084744-0017 (cont'd)	ADP-SD51	9/14/2011	13:20	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD26	9/14/2011	10:21	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD27	9/14/2011	10:00	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD28	9/14/2011	10:37	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD29	9/14/2011	10:54	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			LCP-SD30	9/14/2011	11:36	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			MAN-SW19	9/15/2011	10:12	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			RMS-SW42	9/15/2011	9:01	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			RMS-SW43	9/15/2011	9:02	Surface Water	TAL Inorganics (incl. Hg)	Field Duplicate of RMS-SW42
							Chlorides	
			RMS-SW46	9/15/2011	8:25	Surface Water	TAL Inorganics (incl. Hg)	
							Chlorides	
		2-091611-123015-0020	ADP-SD48	9/14/2011	12:20	Sediment	Particle Size	
			ADP-SD49	9/14/2011	12:07	Sediment	Particle Size	
			ADP-SD51	9/14/2011	13:20	Sediment	Particle Size	
			LCP-SD26	9/14/2011	10:21	Sediment	Particle Size	
			LCP-SD27	9/14/2011	10:00	Sediment	Particle Size	
			LCP-SD29	9/14/2011	10:54	Sediment	Particle Size	
			MAN-SD19	9/15/2011	10:16	Sediment	Particle Size	
			RMS-SD42	9/15/2011	9:07	Sediment	Particle Size	
			RMS-SD43	9/15/2011	9:08	Sediment	Particle Size	Field Duplicate of RMS-SD42
			RMS-SD45	9/14/2011	18:20	Sediment	Particle Size	
			RMS-SD46	9/15/2011	8:28	Sediment	Particle Size	
			RMS-SD47	9/15/2011	8:55	Sediment	Particle Size	
			UCP-SD34	9/14/2011	16:25	Sediment	Particle Size	

Table 3
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/16/2011 (cont'd)	874731027557 (cont'd)	2-091611-123015-0020 (cont'd)	UCP-SD35	9/14/2011	17:05	Sediment	Particle Size	
			UCP-SD37	9/14/2011	17:43	Sediment	Particle Size	
			UCP-SD39	9/14/2011	17:25	Sediment	Particle Size	
			UCP-SD40	9/14/2011	17:45	Sediment	Particle Size	
			UCP-SD41	9/14/2011	18:10	Sediment	Particle Size	
			WES-SD22	9/14/2011	16:37	Sediment	Particle Size	
			WES-SD23	9/14/2011	16:38	Sediment	Particle Size	Field Duplicate of WES-SD22
			WES-SD24	9/14/2011	17:27	Sediment	Particle Size	
9/19/2011	868315994729	2-091911-094707-0025	RMA-WST02B	9/15/2011	11:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST03B	9/15/2011	14:30	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST04B	9/15/2011	14:51	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST05A	9/15/2011	15:22	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST05B	9/15/2011	15:22	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST06B	9/15/2011	15:45	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST12B	9/15/2011	15:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST18B	9/15/2011	17:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
		2-091911-102614-0026	RMA-WST01B	9/16/2011	10:40	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST01C	9/16/2011	10:45	Waste	TAL Inorganics (incl. Hg)	Field Duplicate of RMA-WST01B
			RMA-WST07B	9/16/2011	9:50	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST08A	9/16/2011	9:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST08B	9/16/2011	9:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST10A	9/16/2011	11:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST10B	9/16/2011	11:05	Waste	TAL Inorganics (incl. Hg)	MS/MSD; pH > 11
			RMA-WST11B	9/16/2011	11:20	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMA-WST19B	9/16/2011	9:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
	874731024710	2-091611-160154-0021	RMA-WST01A	9/16/2011	10:40	Waste	TAL Inorganics (incl. Hg)	MS/MSD
			RMA-WST02A	9/15/2011	9:10	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST03A	9/15/2011	10:30	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST04A	9/15/2011	10:55	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST06A	9/16/2011	15:45	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST07A	9/16/2011	9:50	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST09A	9/16/2011	9:15	Waste	TAL Inorganics (incl. Hg)	

Table 3
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/19/2011 (cont'd)	874731024710 (cont'd)	2-091611-160154-0021 (cont'd)	RMA-WST09B	9/16/2011	9:15	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST11A	9/16/2011	11:20	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST11C	9/16/2011	11:25	Waste	TAL Inorganics (incl. Hg)	Field Duplicate of RMA-WST11A
			RMA-WST12A	9/15/2011	11:20	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST13A	9/15/2011	16:10	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST13B	9/15/2011	16:15	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST18A	9/15/2011	17:00	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST19A	9/16/2011	9:00	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST20A	9/15/2011	16:35	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST20B	9/15/2011	16:40	Waste	TAL Inorganics (incl. Hg)	
			UCP-SD36	9/15/2011	16:05	Sediment	Total Organic Carbon	
							TAL Inorganics (incl. Hg)	
			UCP-SD38	9/16/2011	17:36	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
			WES-SD25	9/15/2011	16:57	Sediment	TAL Inorganics (incl. Hg)	
							Total Organic Carbon	
9/20/2011	874731024775	2-092011-150526-0032	ADP-WST41A	9/19/2011	10:15	Waste	TAL Inorganics (incl. Hg)	
			ADP-WST41B	9/19/2011	10:15	Waste	TAL Inorganics (incl. Hg)	
			ADP-WST41C	9/19/2011	10:20	Waste	TAL Inorganics (incl. Hg)	Field Duplicate of ADP-WST41B
			ADP-WST42A	9/19/2011	10:35	Waste	TAL Inorganics (incl. Hg)	MS/MSD
			RMA-WST14A	9/16/2011	14:50	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST14B	9/16/2011	14:50	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST15A	9/16/2011	14:35	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST16A	9/16/2011	14:15	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST16B	9/16/2011	14:15	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST17A	9/16/2011	14:00	Waste	TAL Inorganics (incl. Hg)	
			RMA-WST17B	9/16/2011	14:00	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST24A	9/19/2011	17:40	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST28A	9/19/2011	12:30	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST29A	9/19/2011	11:35	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST30A	9/19/2011	12:10	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST30B	9/19/2011	12:10	Waste	TAL Inorganics (incl. Hg)	MS/MSD

Table 3
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/20/2011 (cont'd)	874731024775 (cont'd)	2-092011-150526-0032 (cont'd)	RMB-WST32A	9/19/2011	12:45	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST34A	9/19/2011	9:35	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST36A	9/19/2011	9:20	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST38A	9/19/2011	8:35	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST39A	9/19/2011	8:00	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST39B	9/19/2011	8:00	Waste	TAL Inorganics (incl. Hg)	
			RMB-WST40A	9/19/2011	12:00	Waste	TAL Inorganics (incl. Hg)	
9/21/2011	874731024797	2-092111-114019-0036	MW-RIN03	9/19/2011	19:00	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
							Chlorides	
			SCA-GW02	9/19/2011	11:25	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW02F	9/19/2011	11:25	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW03	9/19/2011	17:37	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW03F	9/19/2011	17:37	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW04	9/19/2011	14:06	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW04F	9/19/2011	14:06	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW07	9/19/2011	15:51	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW07F	9/19/2011	15:51	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW08	9/20/2011	10:42	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW08F	9/20/2011	10:22	Ground Water	TAL Inorganics (incl. Hg)	
			WST-RIN05	9/19/2011	7:30	QA/QC	TAL Inorganics (incl. Hg)	Rinsate Blank
		2-092111-143107-0038	BG-S16A	9/21/2011	8:10	Soil	TAL Inorganics (incl. Hg)	
			FBS-WST44A	9/20/2011	9:25	Waste	TAL Inorganics (incl. Hg)	
			FBS-WST45A	9/20/2011	9:35	Waste	TAL Inorganics (incl. Hg)	
			FBS-WST46A	9/20/2011	9:50	Waste	TAL Inorganics (incl. Hg)	
			RMA-SW57	9/20/2011	13:15	Surface Water	TAL Inorganics (incl. Hg)	
			SCA-GW01	9/20/2011	16:41	Ground Water	TAL Inorganics (incl. Hg)	MS/MSD
							Chlorides	
			SCA-GW01F	9/20/2011	16:41	Ground Water	TAL Inorganics (incl. Hg)	MS/MSD
			SCA-GW05	9/21/2011	9:15	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	

Table 3
Sample Dispatch and COC Information - DESA
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/21/2011 (cont'd)	874731024797 (cont'd)	2-092111-143107-0038 (cont'd)	SCA-GW05F	9/21/2011	9:15	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW09	9/20/2011	12:30	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW09F	9/20/2011	12:30	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW10	9/20/2011	9:00	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW10F	9/20/2011	9:00	Ground Water	TAL Inorganics (incl. Hg)	
			SCA-GW11	9/20/2011	9:05	Ground Water	TAL Inorganics (incl. Hg)	Field Duplicate of SCA-GW10
							Chlorides	
			SCA-GW11F	9/20/2011	9:05	Ground Water	TAL Inorganics (incl. Hg)	Field Duplicate of SCA-GW10F
		2-092111-160146-0042	FBS-WST43A	9/21/2011	10:00	Waste	TAL Inorganics (incl. Hg)	
			RMA-SD57	9/21/2011	10:25	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD58	9/21/2011	10:38	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD59	9/21/2011	10:55	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD60	9/21/2011	11:05	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD61	9/21/2011	11:15	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD62	9/21/2011	11:20	Sediment	TAL Inorganics (incl. Hg)	
			RMA-SD63	9/21/2011	11:30	Sediment	TAL Inorganics (incl. Hg)	Field Duplicate of RMA-SD62
9/22/2011	868315914158	2-092211-102521-0046	RMB-WST22A	9/19/2011	15:20	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST22B	9/19/2011	15:22	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST23A	9/19/2011	15:55	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST23B	9/19/2011	17:00	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST23C	9/19/2011	17:10	Waste	TAL Inorganics (incl. Hg)	Field Duplicate of RMB-WST23B
			RMB-WST28B	9/19/2011	12:30	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST29B	9/19/2011	11:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST34B	9/19/2011	9:35	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST37A	9/19/2011	8:10	Waste	TAL Inorganics (incl. Hg)	pH > 11
			RMB-WST37B	9/19/2011	8:10	Waste	TAL Inorganics (incl. Hg)	pH > 11
	874731026138	2-092211-101644-0045	SCA-GW06	9/21/2011	11:55	Ground Water	TAL Inorganics (incl. Hg)	
							Chlorides	
			SCA-GW06F	9/21/2011	11:55	Ground Water	TAL Inorganics (incl. Hg)	

TABLE 4

SAMPLE DISPATCH AND COC INFORMATION – NAREL

Table 4
Sample Dispatch and COC Information - NAREL
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/19/2011	874731024731	2-091711-140743-0023	RMA-WST01A	9/16/2011	10:40	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	MS/MSD
			RMA-WST02A	9/15/2011	9:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST03A	9/15/2011	10:30	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST04A	9/15/2011	10:55	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST06A	9/16/2011	15:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST07A	9/16/2011	9:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST09A	9/16/2011	9:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST09B	9/16/2011	9:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST11A	9/16/2011	11:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST12A	9/15/2011	11:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST14A	9/16/2011	14:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST14B	9/16/2011	14:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST15A	9/16/2011	14:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST16A	9/16/2011	14:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST16B	9/16/2011	14:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST17A	9/16/2011	14:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST17B	9/16/2011	14:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST18A	9/15/2011	17:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST19A	9/16/2011	9:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST20A	9/15/2011	16:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
9/20/2011	874731024764	2-092011-130824-0030	ADP-WST41A	9/19/2011	10:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			ADP-WST41B	9/19/2011	10:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			ADP-WST41C	9/19/2011	10:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of ADP-WST41B
			ADP-WST42A	9/19/2011	10:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	MS/MSD
			ADP-WST42B	9/19/2011	10:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			FBS-WST44A	9/20/2011	9:25	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			FBS-WST45A	9/20/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			FBS-WST46A	9/20/2011	9:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST24A	9/19/2011	17:40	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST28A	9/19/2011	12:30	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST29A	9/19/2011	11:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST30A	9/19/2011	12:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST30B	9/19/2011	12:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	MS/MSD
			RMB-WST32A	9/19/2011	12:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST34A	9/19/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST36A	9/19/2011	9:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST38A	9/19/2011	8:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST39A	9/19/2011	8:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST39B	9/19/2011	8:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMB-WST40A	9/19/2011	12:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	

Table 4
Sample Dispatch and COC Information - NAREL
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/21/2011	868315994730	2-092011-124541-0029	RMA-WST02B	9/15/2011	11:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST04B	9/15/2011	14:51	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST05A	9/15/2011	15:22	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST05B	9/15/2011	15:22	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST06B	9/15/2011	15:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST07B	9/16/2011	9:50	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST08A	9/16/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST10A	9/16/2011	11:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST11B	9/16/2011	11:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST11C	9/16/2011	11:25	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of RMA-WST11A
			RMA-WST19B	9/16/2011	9:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
		2-092011-133530-0031	RMB-WST22A	9/19/2011	15:20	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST22B	9/19/2011	15:22	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST23A	9/19/2011	15:55	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST23B	9/19/2011	17:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST23C	9/19/2011	17:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of RMB-WST23B
			RMB-WST28B	9/19/2011	12:30	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST29B	9/19/2011	11:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST34B	9/19/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST37A	9/19/2011	8:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMB-WST37B	9/19/2011	8:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
	868315994740	2-092111-103224-0034	RMA-WST01B	9/16/2011	10:40	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST01C	9/16/2011	10:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of RMA-WST01B
			RMA-WST03B	9/15/2011	14:30	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
			RMA-WST10B	9/16/2011	11:05	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	MS/MSD
			RMA-WST12B	9/15/2011	15:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	pH > 11
	874731024801	2-092111-130009-0037	ADP-SD49	9/14/2011	12:07	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S01	9/12/2011	10:00	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S07	9/20/2011	16:50	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S08	9/20/2011	17:00	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S09	9/20/2011	17:10	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S10	9/20/2011	17:15	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S11	9/20/2011	17:20	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S12	9/20/2011	17:25	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S13	9/20/2011	17:30	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S14	9/20/2011	17:40	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S15	9/20/2011	17:45	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			BG-S16A	9/21/2011	8:10	Soil	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			LCP-SD33	9/14/2011	12:05	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	

Table 4
Sample Dispatch and COC Information - NAREL
St. Croix Alumina (Renaissance Park) Site
September 2011

Date Shipped	FedEx Airbill No	COC	Sample #	Sample Date	Sample Time	Matrix	Analyses	QA/QC and Remarks
9/21/2011 (cont'd)	874731024801 (cont'd)	2-092111-130009-0037 (cont'd)	RMA-WST13A	9/15/2011	16:10	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST13B	9/15/2011	16:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST20B	9/15/2011	16:40	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST-R01A	9/21/2011	9:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST-R02A	9/21/2011	9:15	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMS-SD45	9/14/2011	18:20	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			UCP-SD35	9/14/2011	17:05	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			UCP-SD37	9/14/2011	17:43	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			UCP-SD39	9/14/2011	17:25	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
9/22/2011	865869642224	2-092211-112105-0047	RMA-SW57	9/20/2011	13:15	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			RMS-SW45	9/14/2011	18:17	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW01	9/20/2011	16:41	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	MS/MSD
			SW-RMA-WST12	9/15/2011	15:00	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			UCP-SW35	9/14/2011	17:00	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			UCP-SW39	9/14/2011	17:20	Surface Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
		2-092211-115537-0048	SCA-GW05	9/21/2011	9:15	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW06	9/21/2011	11:55	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW08	9/20/2011	10:42	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW10	9/20/2011	9:00	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			WST-RIN01	9/15/2011	18:25	QA/QC	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	Rinsate Blank
		2-092211-120450-0049	SCA-GW02	9/19/2011	11:25	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
			SCA-GW07	9/19/2011	15:51	Ground Water	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	
	868315914147	2-092211-085743-0044	RMA-WST06B(2)	9/15/2011	15:45	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST08B	9/16/2011	9:35	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-WST18B	9/15/2011	17:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
	874731026116	2-092211-083246-0043	FBS-WST43A	9/21/2011	10:00	Waste	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD57	9/21/2011	10:25	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD58	9/21/2011	10:38	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD59	9/21/2011	10:55	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD60	9/21/2011	11:05	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD61	9/21/2011	11:15	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD62	9/21/2011	11:20	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	
			RMA-SD63	9/21/2011	11:30	Sediment	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	Field Duplicate of RMA-SD62

ATTACHMENT 1

CHAIN OF CUSTODY RECORDS AND AIRBILLS

USEPA CLP Inorganics CQC (REGION COPY)
DateShipped: 9/12/2011
CarrierName: FedEx
AirbillNo: 873693948787

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 1

No: 2-091211-154400-0001
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
BG-S01	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S01	09/12/2011 10:00		Field Sample
BG-S02	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S02	09/12/2011 10:35		Field Sample
BG-S03	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S03	09/12/2011 13:00		Field Sample
BG-S04	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S04	09/12/2011 13:47		Field Sample
BG-S05	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S05	09/12/2011 13:30		Field Sample
BG-S06	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S05	09/12/2011 13:35		Field Duplicate
BG-SS02	Soil/ SAT	Bucket Auger	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	BG-S02	09/12/2011 10:50		Field Sample
MAN-SD09	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW09	09/12/2011 10:47		Field Sample
MAN-SD10	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW10	09/12/2011 11:25		Field Sample
MAN-SD11	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW11	09/12/2011 11:47		Field Sample
MAN-SW09	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	~~1022~~ (HNO3 pH<2), A (Cool to 4 C) (2)	MAN-SW09	09/12/2011 10:45		Field Sample

MAN-SW09 Not preserved DC

Sample(s) to be used for Lab QC: BG-S01

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/12/11	FedEx	9/12/11	1630						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/12/2011
CarrierName: FedEx
AirbillNo: 873693948787

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 1

No: 2-091211-154400-0001
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MAN-SW10	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	DC DC DC 1029 (~~HNO3 pH<2~~), ~~A~~ (Cool to 4 C) (2)	MAN-SW10	09/12/2011 11:20		Field Sample
MAN-SW11	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	DC DC DC ~~1024 (HNO3 pH<2)~~, ~~A~~ (Cool to 4 C) (2)	MAN-SW11	09/12/2011 11:45		Field Sample

Special Instructions: MAN-SW10 and MAN-SW11 not preserved

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/12/11	FedEx	9/12/11	1630						

FedEx Express — International Air Waybill

For FedEx services worldwide.

DELIVERED 9/14/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/12/11 Sender's FedEx Account Number 108067691

Sender's Name Dan Carlson Phone (973) 271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name John Birri Phone (732) 906-6886

Company USEPA Region 2

Address 2890 Woodbridge Ave, Dept/Floor

Address Building 209 MS-230

City Edison State/Province NJ

Country USA ZIP/Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 30 ☒ lbs ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
DETAILS REQUIRED. PRINT IN ENGLISH. Environmental Samples (soil & water) For LAB TESTING ONLY			

Has EEI been filed in AES? (For U.S. Export Only: Check One)
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Same Currency) $2001 USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First (Available to select locations.)
☐ _____ ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only.)

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque (FedEx Use Only)

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: _____

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

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PART 158410-Rev. Date 11/08
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USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/13/2011
CarrierName: FedEx
AirbillNo: 874731027524

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 1

No: 2-091311-090226-0002
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MAN-SD08	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW08	09/12/2011 16:20		Field Sample
MAN-SD12	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW12	09/12/2011 14:15		Field Sample
MAN-SD13	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW13	09/12/2011 15:33		Field Sample
MAN-SD14	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW14	09/12/2011 17:20		Field Sample
MAN-SD15	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW15	09/12/2011 17:05		Field Sample
MAN-SD16	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	MAN-SW16	09/12/2011 14:35		Field Sample
MAN-SW08	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	~~1021~~ (HNO3 pH<2), ~~A~~ (Cool to 4 C) (2)	MAN-SW08	09/12/2011 16:15		Field Sample
MAN-SW12	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	~~1026~~ (HNO3 pH<2), ~~A~~ (Cool to 4 C) (2)	MAN-SW12	09/12/2011 14:12		Field Sample
MAN-SW13	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	~~1025~~ (HNO3 pH<2), ~~A~~ (Cool to 4 C) (2)	MAN-SW13	09/12/2011 15:30		Field Sample
SD-RIN06	QA/QC/ SAT	Grab	TAL Inorganics (incl. Hg)	~~A~~ (HNO3 pH<2) (1)	Site	09/12/2011 14:10		Rinsate Blank

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/13/11	FedEx	9/13/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/13/2011
CarrierName: FedEx
AirbillNo: 874731027524

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 2

No: 2-091311-151335-0003
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
ACC-SD01	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), B (Cool to 4 C), D (Cool to 4 C) (3)	ACC-SW01	09/13/2011 09:57		MS/MSD
ACC-SD04	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	ACC-SW04	09/13/2011 10:20		Field Sample
ACC-SD05	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	ACC-SW05	09/13/2011 11:10		Field Sample
ACC-SD06	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	ACC-SW06	09/13/2011 11:40		Field Sample
ACC-SD07	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	ACC-SW07	09/13/2011 11:50		Field Sample
ACC-SD52	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC, Particle Size	A (Cool to 4 C), C (Cool to 4 C), D (Cool to 4 C) (3)	ACC-SW52	09/13/2011 12:15		Field Sample

Sample(s) to be used for Lab QC: ACC-SD01

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/13/11	FedEx	9/13/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/13/2011
CarrierName: FedEx
AirbillNo: 874731027524

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 3

No: 2-091311-155400-0006
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
ACC-SW01	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ACC-SW01	09/13/2011 09:52		MS/MSD
ACC-SW04	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ACC-SW04	09/13/2011 10:12		Field Sample
ACC-SW05	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ACC-SW05	09/13/2011 11:07		Field Sample
ACC-SW06	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ACC-SW06	09/13/2011 11:35		Field Sample
ACC-SW07	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ACC-SW07	09/13/2011 11:47		Field Sample
ACC-SW52	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ACC-SW52	09/13/2011 12:12		Field Sample
MAN-SW15	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	MAN-SW15	09/12/2011 17:00		Field Sample
MAN-SW16	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	MAN-SW16	09/12/2011 14:30		Field Sample
ACC-SW01	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1088 (HNO3 pH<2) (1)	ACC-SW01	09/13/2011 09:52		MS/MSD
ACC-SW04	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1097 (HNO3 pH<2) (1)	ACC-SW04	09/13/2011 10:12		Field Sample
ACC-SW05	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1098 (HNO3 pH<2) (1)	ACC-SW05	09/13/2011 11:07		Field Sample

Sample(s) to be used for Lab QC: ACC-SW01, ACC-SW01

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/13/11	FedEx	9/13/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/13/2011
CarrierName: FedEx
AirbillNo: 874731027524

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 3

No: 2-091311-155400-0006
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
ACC-SW06	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1099 (HNO3 pH<2) (1)	ACC-SW06	09/13/2011 11:35		Field Sample
ACC-SW07	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1100 (HNO3 pH<2) (1)	ACC-SW07	09/13/2011 11:47		Field Sample
ACC-SW52	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1077 (HNO3 pH<2) (1)	ACC-SW52	09/13/2011 12:12		Field Sample
MAN-SW14	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg), Cl	1027 (HNO3 pH<2), (Cool to 4 C) (2)	MAN-SW14	09/12/2011 17:15		Field Sample
MAN-SW15	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1028 (HNO3 pH<2) (1)	MAN-SW15	09/12/2011 17:00		Field Sample
MAN-SW16	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1029 (HNO3 pH<2) (1)	MAN-SW16	09/12/2011 14:30		Field Sample

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/13/11	FedEx	9/13/11	1645						

FedEx Express — International Air Waybill

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DELIVERED 9/16/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/13/11 Sender's FedEx Account Number 108 067 691 SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name John Birri Phone (732)906-6886

Company USEPA Region 2

Address 2890 Woodbridge Ave.

Address Building 209 MS-230 Dept/Floor

City Edison State Province NJ

Country USA ZIP Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 3

Total Weight 185 ☒ lbs ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (soil + water) For LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One

☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

☐ No EEI required, enter exemption number: If other than NLR, enter License Exception:

☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.– USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg — For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First — Available to select locations.

☐ ☐ FedEx Intl. Economy — FedEx Envelope and FedEx Pak rate not available.

5 Packaging — *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery — Available to select locations for FedEx Intl. Priority only.

7 Payment — Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque — FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference — First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: Dan Carlson

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

For Completion Instructions, see back of fifth page.

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USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/14/2011
CarrierName: FedEx
AirbillNo: 873693948802

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 1

No: 2-091411-110541-0007
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
BG-SD53	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), B (Cool to 4 C) (2)	BG-SW53	09/13/2011 14:25		Field Sample
BG-SD54	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), B (Cool to 4 C) (2)	BG-SW54	09/13/2011 14:15		Field Sample
BG-SD55	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), B (Cool to 4 C) (2)	BG-SW55	09/13/2011 14:53		Field Sample
BG-SD56	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), B (Cool to 4 C) (2)	BG-SW56	09/13/2011 15:18		Field Sample
BG-SW53	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	BG-SW53	09/13/2011 14:22		Field Sample
BG-SW54	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	BG-SW54	09/13/2011 14:12		Field Sample
BG-SW55	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	BG-SW55	09/13/2011 14:47		Field Sample
BG-SW56	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	BG-SW56	09/13/2011 15:15		Field Sample
BG-SW53	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1080 (HNO3 pH<2) (1)	BG-SW53	09/13/2011 14:22		Field Sample
BG-SW54	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1083 (HNO3 pH<2) (1)	BG-SW54	09/13/2011 14:12		Field Sample
BG-SW55	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1084 (HNO3 pH<2) (1)	BG-SW55	09/13/2011 14:47		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/14/11	FedEx	9/14/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/14/2011
CarrierName: FedEx
AirbillNo: 873693948802

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 1

No: 2-091411-110541-0007
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
BG-SW56	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	DC ~~4087~~ (HNO3 pH<2) (1)	BG-SW56	09/13/2011 15:15		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/14/11	FedEx	9/14/11	1645						

FedEx Express — International Air Waybill

For FedEx services worldwide.

DELIVERED 9/16/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/14/11 Sender's FedEx Account Number 108 067 691 SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-906-6886

Company USEPA Region 2

Address 2890 Woodbridge Ave. Dept./Floor

Address Building 209 MS-230

City Edison State Province NJ

Country USA ZIP Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EU only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 53 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (soil + water) for LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.- USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First (Available to select locations.)
☐ ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only.)

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque (FedEx Use Only)

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: Enter FedEx Acct. No. below. ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature]

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

For Completion Instructions, see back of fifth page.

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FedEx Tracking Number 8736 9394 8802

Form ID No. 0402

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Questions? Go to our Web site at fedex.com.

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USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/15/2011
CarrierName: FedEx
AirbillNo: 874731027535

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 1

No: 2-091411-182630-0011
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
ADP-SW48	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ADP-SW48	09/14/2011 12:18		Field Sample
ADP-SW50	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ADP-SW50	09/14/2011 12:48		Field Sample
ADP-SW51	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ADP-SW51	09/14/2011 13:18		Field Sample
LCP-SW26	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW26	09/14/2011 10:19		Field Sample
LCP-SW27	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW27	09/14/2011 09:57		Field Sample
LCP-SW28	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW28	09/14/2011 10:55		Field Sample
LCP-SW29	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW29	09/14/2011 10:51		Field Sample
LCP-SW30	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW30	09/14/2011 11:33		Field Sample
ADP-SW48	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1073 (HNO3 pH<2) (1)	ADP-SW48	09/14/2011 12:18		Field Sample
ADP-SW50	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1075 (HNO3 pH<2) (1)	ADP-SW50	09/14/2011 12:48		Field Sample
ADP-SW51	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1076 (HNO3 pH<2) (1)	ADP-SW51	09/14/2011 13:18		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/15/11	FedEx	9/15/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/15/2011
CarrierName: FedEx
AirbillNo: 874731027535

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 1

No: 2-091411-182630-0011
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
LCP-SW26	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1039 (HNO3 pH<2) (1)	LCP-SW26	09/14/2011 10:19		Field Sample
LCP-SW27	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1040 (HNO3 pH<2) (1)	LCP-SW27	09/14/2011 09:57		Field Sample
LCP-SW28	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1041 (HNO3 pH<2) (1)	LCP-SW28	09/14/2011 10:55		Field Sample
LCP-SW29	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1042 (HNO3 pH<2) (1)	LCP-SW29	09/14/2011 10:51		Field Sample
LCP-SW30	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1049 (HNO3 pH<2) (1)	LCP-SW30	09/14/2011 11:33		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/15/11	FedEx	9/15/11	1645						

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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 2

No: 2-091511-113612-0012
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
LCP-SD31	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	DC DC A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW31	09/14/2011 10:50		Field Sample
LCP-SD32	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW32	09/14/2011 11:20		Field Sample
LCP-SD33	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW33	09/14/2011 12:05		Field Sample
LCP-SW31	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW31	09/14/2011 10:44		Field Sample
LCP-SW32	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW32	09/14/2011 11:15		Field Sample
LCP-SW33	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	LCP-SW33	09/14/2011 12:00		Field Sample
MAN-SD17	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	DC A (Cool to 4 C), C (Cool to 4 C) (2)	MAN-SW17	09/14/2011 10:25		Field Sample
MAN-SD20	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	MAN-SW20	09/14/2011 11:40		Field Sample
MAN-SD21	Sediment/ SAT		TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	MAN-SW21	09/14/2011 12:35		MS/MSD
MAN-SW17	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	MAN-SW17	09/14/2011 10:22		Field Sample
MAN-SW20	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	MAN-SW20	09/14/2011 11:30		Field Sample

Sample(s) to be used for Lab QC: MAN-SD21, MAN-SW21

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 2

No: 2-091511-113612-0012
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
MAN-SW21	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	MAN-SW21	09/14/2011 12:30		MS/MSD
LCP-SW31	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1050 (HNO3 pH<2) (1)	LCP-SW31	09/14/2011 10:44		Field Sample
LCP-SW32	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1051 (HNO3 pH<2) (1)	LCP-SW32	09/14/2011 11:15		Field Sample
LCP-SW33	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1052 (HNO3 pH<2) (1)	LCP-SW33	09/14/2011 12:00		Field Sample
MAN-SW17	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1030 (HNO3 pH<2) (1)	MAN-SW17	09/14/2011 10:22		Field Sample
MAN-SW20	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1033 (HNO3 pH<2) (1)	MAN-SW20	09/14/2011 11:30		Field Sample
MAN-SW21	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1034 (HNO3 pH<2) (1)	MAN-SW21	09/14/2011 12:30		MS/MSD

Sample(s) to be used for Lab QC: MAN-SW21, MAN-SW21

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 3

No: 2-091511-125944-0013
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC DC	Station Location	Collected	Organic Sample #	Sample Type
UCP-SD34	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW34	09/14/2011 16:25		Field Sample
UCP-SD35	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW35	09/14/2011 17:05		Field Sample
UCP-SD37	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW37	09/14/2011 17:43		Field Sample
UCP-SW39	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW39	09/14/2011 17:20		Field Sample
UCP-SW41	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1) DC	UCP-SW41	09/14/2011 18:05		MS/MSD
WES-SD22	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	WES-SW22	09/14/2011 16:37		Field Sample
WES-SD23	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	WES-SW22	09/14/2011 16:38		Field Duplicate
WES-SD24	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	WES-SW24	09/14/2011 17:27		Field Sample
UCP-SW39	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1060 (HNO3 pH<2) (1)	UCP-SW39	09/14/2011 17:20		Field Sample
UCP-SW41	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1062 (HNO3 pH<2) (1)	UCP-SW41	09/14/2011 18:05		MS/MSD

Sample(s) to be used for Lab QC: UCP-SW41, UCP-SW41

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 4

No: 2-091511-134842-0014
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
ADP-SW49	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	ADP-SW49	09/14/2011 12:05		Field Sample
RMS-SW45	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	RMS-SW45	09/14/2011 18:17		Field Sample
UCP-SW34	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW34	09/14/2011 16:20		Field Sample
UCP-SW35	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW35	09/14/2011 17:00		Field Sample
UCP-SW37	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW37	09/14/2011 17:38		Field Sample
UCP-SW40	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW40	09/14/2011 17:40		Field Sample
WES-SW22	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	WES-SW22	09/14/2011 16:32		Field Sample
WES-SW23	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	WES-SW22	09/14/2011 16:33		Field Duplicate
WES-SW24	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	WES-SW24	09/14/2011 17:22		Field Sample
ADP-SW49	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1074 (HNO3 pH<2) (1)	ADP-SW49	09/14/2011 12:05		Field Sample
RMS-SW45	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1068 (HNO3 pH<2) (1)	RMS-SW45	09/14/2011 18:17		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/15/11	FedEx	9/15/11	1645						

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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 4

No: 2-091511-134842-0014
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
UCP-SW34	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1055 (HNO3 pH<2) (1)	UCP-SW34	09/14/2011 16:20		Field Sample
UCP-SW35	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1056 (HNO3 pH<2) (1)	UCP-SW35	09/14/2011 17:00		Field Sample
UCP-SW37	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1058 (HNO3 pH<2) (1)	UCP-SW37	09/14/2011 17:38		Field Sample
UCP-SW40	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1061 (HNO3 pH<2) (1)	UCP-SW40	09/14/2011 17:40		Field Sample
WES-SW22	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1035 (HNO3 pH<2) (1)	WES-SW22	09/14/2011 16:32		Field Sample
WES-SW23	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1036 (HNO3 pH<2) (1)	WES-SW22	09/14/2011 16:33		Field Duplicate
WES-SW24	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1037 (HNO3 pH<2) (1)	WES-SW24	09/14/2011 17:22		Field Sample

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #:
Cooler #: 5

No: 2-091511-153211-0016
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC DC	Station Location	Collected	Organic Sample #	Sample Type
MAN-SD19	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	MAN-SW19	09/15/2011 10:16		Field Sample
RMS-SD42	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	RMS-SW42	09/15/2011 09:07		Field Sample
RMS-SD43	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	RMS-SW42	09/15/2011 09:08		Field Duplicate
RMS-SD45	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	RMS-SW45	09/14/2011 18:20		Field Sample
RMS-SD46	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	RMS-SW46	09/15/2011 08:28		Field Sample
RMS-SD47	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	RMS-SW47	09/15/2011 08:55		Field Sample
UCP-SD39	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW39	09/14/2011 17:25		Field Sample
UCP-SD40	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW40	09/14/2011 17:45		Field Sample
UCP-SD41	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW41	09/14/2011 18:10		MS/MSD

Sample(s) to be used for Lab QC: UCP-SD41

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company USEPA Region 2

Address 2890 Woodbridge Ave. Dept./Floor

Address Building 209 MS-230

City Edison State/Province NJ

Country USA ZIP/Postal Code 08837

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Environmental Samples (soil + water) for LAB ~~ANA~~ TESTING ONLY			

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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091611-084744-0017
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
ADP-SD48	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	ADP-SW48	09/14/2011 12:20		Field Sample
ADP-SD49	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	ADP-SW49	09/14/2011 12:07		Field Sample
ADP-SD50	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	ADP-SW50	09/14/2011 12:51		Field Sample
ADP-SD51	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	ADP-SW51	09/14/2011 13:20		Field Sample
LCP-SD26	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW26	09/14/2011 10:21		Field Sample
LCP-SD27	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW27	09/14/2011 10:00		Field Sample
LCP-SD28	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW28	09/14/2011 10:37		Field Sample
LCP-SD29	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW29	09/14/2011 10:54		Field Sample
LCP-SD30	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	LCP-SW30	09/14/2011 11:36		Field Sample
MAN-SW19	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	MAN-SW19	09/15/2011 10:12		Field Sample
RMS-SW42	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	RMS-SW42	09/15/2011 09:01		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
———	[signature]	9/16/11	FedEx	9/16/11	1645						

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DateShipped: 9/16/2011
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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091611-084744-0017
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
RMS-SW43	Surface Water/ SAT	Grab	Cl	DC A (Cool to 4 C) (1)	RMS-SW42	09/15/2011 09:02		Field Duplicate
RMS-SW46	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	RMS-SW46	09/15/2011 08:25		Field Sample
MAN-SW19	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1032 (HNO3 pH<2) (1)	MAN-SW19	09/15/2011 10:12		Field Sample
RMS-SW42	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1065 (HNO3 pH<2) (1)	RMS-SW42	09/15/2011 09:01		Field Sample
RMS-SW43	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1066 (HNO3 pH<2) (1)	RMS-SW42	09/15/2011 09:02		Field Duplicate
RMS-SW46	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1069 (HNO3 pH<2) (1)	RMS-SW46	09/15/2011 08:25		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon, Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/16/11	FedEx	9/16/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/16/2011
CarrierName: FedEx
AirbillNo: 874731027557

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-091611-123015-0020
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
ADP-SD48	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	ADP-SW48	09/14/2011 12:20		Field Sample
ADP-SD49	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	ADP-SW49	09/14/2011 12:07		Field Sample
ADP-SD51	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	ADP-SW51	09/14/2011 13:20		Field Sample
LCP-SD26	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW26	09/14/2011 10:21		Field Sample
LCP-SD27	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW27	09/14/2011 10:00		Field Sample
LCP-SD29	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW29	09/14/2011 10:54		Field Sample
MAN-SD19	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	MAN-SW19	09/15/2011 10:16		Field Sample
RMS-SD42	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	RMS-SW42	09/15/2011 09:07		Field Sample
RMS-SD43	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	RMS-SW42	09/15/2011 09:08		Field Duplicate
RMS-SD45	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	RMS-SW45	09/14/2011 18:20		Field Sample
RMS-SD46	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	RMS-SW46	09/15/2011 08:28		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/16/11	Fed Ex	9/16/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/16/2011
CarrierName: FedEx
AirbillNo: 874731027557

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-091611-123015-0020
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMS-SD47	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	RMS-SW47	09/15/2011 08:55		Field Sample
UCP-SD34	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW34	09/14/2011 16:25		Field Sample
UCP-SD35	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW35	09/14/2011 17:05		Field Sample
UCP-SD37	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW37	09/14/2011 17:43		Field Sample
UCP-SD39	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW39	09/14/2011 17:25		Field Sample
UCP-SD40	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW40	09/14/2011 17:45		Field Sample
UCP-SD41	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW41	09/14/2011 18:10		MS/MSD
WES-SD22	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	WES-SW22	09/14/2011 16:37		Field Sample
WES-SD23	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	WES-SW22	09/14/2011 16:38		Field Duplicate
WES-SD24	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	WES-SW24	09/14/2011 17:27		Field Sample

Sample(s) to be used for Lab QC: UCP-SD41

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/16/11	FedEx	9/16/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/16/2011
CarrierName: FedEx
AirbillNo: 874731027557

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 3

No: 2-091411-111232-0009
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
ADP-SD50	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	ADP-SW50	09/14/2011 12:51		Field Sample
BG-SD53	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	BG-SW53	09/13/2011 14:25		Field Sample
BG-SD54	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	BG-SW54	09/13/2011 14:15		Field Sample
BG-SD55	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	BG-SW55	09/13/2011 14:53		Field Sample
BG-SD56	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	BG-SW56	09/13/2011 15:18		Field Sample
LCP-SD28	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW28	09/14/2011 10:37		Field Sample
LCP-SD30	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW30	09/14/2011 11:36		Field Sample
LCP-SD31	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW31	09/14/2011 10:50		Field Sample
LCP-SD32	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW32	09/14/2011 11:20		Field Sample
LCP-SD33	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	LCP-SW33	09/14/2011 12:05		Field Sample
MAN-SD17	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	MAN-SW17	09/14/2011 10:25		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/16/11	FedEx	9/16/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/16/2011
CarrierName: FedEx
AirbillNo: 874731027557

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 3

No: 2-091411-111232-0009
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
MAN-SD20	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	MAN-SW20	09/14/2011 11:40		Field Sample
MAN-SD21	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	MAN-SW21	09/14/2011 12:35		MS/MSD
UCP-SD36	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW36	09/15/2011 16:05		Field Sample
UCP-SD38	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	UCP-SW38	09/16/2011 17:36		Field Sample
WES-SD25	Sediment/ SAT	Dedicated scoop	Particle Size	D (None) (1)	WES-SW25	09/16/2011 16:57		Field Sample

Sample(s) to be used for Lab QC: MAN-SD21

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	David Lake	9/16/11	FedEx	9/16/11	1645						

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DELIVERED 9/17/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/16/11 Sender's FedEx Account Number 108 067 691

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company US EPA Region 2

Address 2890 Woodbridge Ave. Dept/Floor

Address Building 209 MS-230

City Edison State/Province NJ

Country USA ZIP/Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EU Only: tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 3

Total Weight 15 ☒ lbs. ☐ kg

DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (Soil + water) for LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One

☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

☐ No EEI required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.- USD

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☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

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FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

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FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

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Sender's Signature: Dan Carlson

This is not authorization to deliver this shipment without a recipient signature.

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Form ID No. 0402

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USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/16/2011
CarrierName: FedEx
AirbillNo: 874731024694

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091611-095356-0018
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
UCP-SW36	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW36	09/15/2011 16:02		Field Sample
UCP-SW38	Surface Water/ SAT	Grab	Cl	A (Cool to 4 C) (1)	UCP-SW38	09/15/2011 19:34		Field Sample
UCP-SW36	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1057 (HNO3 pH<2) (1)	UCP-SW36	09/15/2011 16:02		Field Sample
UCP-SW38	Surface Water/ SAT	Grab	TAL Inorganics (incl. Hg)	1059 (HNO3 pH<2) (1)	UCP-SW38	09/15/2011 19:34		Field Sample
WST-RIN01	QA/QC/ SAT	Grab	TAL Inorganics (incl. Hg)	1002 (HNO3 pH<2) (1)	Site	09/15/2011 18:25		Rinsate Blank
WST-RIN02	QA/QC/ SAT	Grab	TAL Inorganics (incl. Hg)	1005 (HNO3 pH<2) (1)	Site	09/16/2011 15:21		Rinsate Blank

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
———	[signature]	9/16/11	FedEx	9/16/11	1645						

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1 From *Please print and press hard.*

Date 09/16/11 Sender's FedEx Account Number 108 067 691
FOR FEDEX EXPRESS COURIER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company US EPA Region 2

Address 2890 Woodbridge Ave. Dept/Floor

Address Building 209 MS-230

City Edison State Province NJ

Country USA ZIP Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1

Total Weight 41 ☒ lbs ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (water) for LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: If other than NLR, enter License Exception:
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $ 200.- USD

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☐ _____ ☐ FedEx Intl. Economy — FedEx Envelope and FedEx Pak rate not available.

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☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

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Credit Card Exp. Date

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☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

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Sender's Signature: [signature]

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DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 868315994729

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091911-094707-0025
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST02B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST02	09/15/2011 11:35		Field Sample
RMA-WST03B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST03	09/15/2011 14:30		Field Sample
RMA-WST04B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST04	09/15/2011 14:51		Field Sample
RMA-WST05A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST05	09/15/2011 15:30		Field Sample
RMA-WST05B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST05	09/15/2011 15:22		Field Sample
RMA-WST06B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST06	09/15/2011 15:45		Field Sample
RMA-WST12B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST12	09/15/2011 15:00		Field Sample
RMA-WST18B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST18	09/15/2011 17:00		Field Sample

Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/19/11	FedEx	9/19/11	1400						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 868315994729

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-091911-102614-0026
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST01B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST01	09/16/2011 10:40		Field Sample
RMA-WST01C	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST01	09/16/2011 10:45		Field Duplicate
RMA-WST07B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST07	09/16/2011 09:50		Field Sample
RMA-WST08A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST08	09/16/2011 09:35		Field Sample
RMA-WST08B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST08	09/16/2011 09:35		Field Sample
RMA-WST10A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST10	09/16/2011 11:00		Field Sample
RMA-WST10B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST10	09/16/2011 11:05		MS/MSD
RMA-WST11B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST11	09/16/2011 11:20		Field Sample
RMA-WST19B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST19	09/16/2011 09:00		Field Sample

Sample(s) to be used for Lab QC: RMA-WST10B - Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/19/11	FedEx	9/19/11	1400						

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Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company USEPA Region 2

Address 2890 Woodbridge Ave

Address Building 209 Dept./Floor MS-230

City Edison State Province NJ

Country USA ZIP Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages (Shipper's Load and Count/SLAC) 2 Total Weight 9/7 ☒ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Bauxite Processing Mixture FOR LAB TESTING ONLY			$200.00
FOLD HERE BEFORE INSERTING IN POUCH.			
COMPLETE IN ENGLISH.			

Has EEI/SED been filed in AES? For U.S. Export Only: Check One

☒ No EEI/SED required, value $2,500 or less per Schedule B Number, no license required (NLR), not subject to ITAR.

☐ No EEI/SED required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200.- USD

For Completion Instructions, see back of fifth page.

Questions?
Go to our Web site at fedex.com.
or
In the U.S., call 1.800.247.4747.
Outside the U.S., call your local FedEx office.

The terms and conditions of service may vary from country to country. Consult our local office for specific information.
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The World On Time.

Not all services and options are available to all destinations.

4a Express Package Service *Packages up to 150 lbs. / 68 kg*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations. Higher rates apply. ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

☐ ____ | | |

4b Express Freight Service *Packages over 150 lbs. / 68 kg*

☐ FedEx Intl. Priority Freight ☐ FedEx Intl. Economy Freight

Booking Number REQUIRED
Please call your local FedEx office to book shipments.

5 Packaging

*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler Plastic Box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6a Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only. ☐ ____ | | |

Does this shipment contain dangerous goods? One box must be checked / ticked.

☐ No ☒ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

6b Broker Selection

Not available with FedEx Intl. First. ☐ Intl. Broker Select To specify a broker other than FedEx.

Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/ Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:*

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department license. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract.

WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: Dan Carlson

This is not authorization to deliver this shipment without a recipient signature.

FedEx Courier Receipt: Date: 09/19/11

For letter of credit shipments only.

Ship and track packages at fedex.com

FedEx Tracking Number 8683 1599 4729 Form ID No. 0425

522

PART 158412 • Rev. Date 4/06
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USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 874731024710

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091611-160154-0021
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST01A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST01	09/16/2011 10:40		MS/MSD
RMA-WST02A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST02	09/15/2011 08:10		Field Sample
RMA-WST03A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST03	09/15/2011 10:30		Field Sample
RMA-WST04A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST04	09/15/2011 10:55		Field Sample
RMA-WST06A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST06	09/16/2011 15:45		Field Sample
RMA-WST07A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST07	09/16/2011 09:50		Field Sample
RMA-WST09A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST09	09/16/2011 09:15		Field Sample
RMA-WST09B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST09	09/16/2011 09:15		Field Sample
RMA-WST11A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST11	09/16/2011 11:20		Field Sample
RMA-WST11C	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST11	09/16/2011 11:25		Field Duplicate
RMA-WST12A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST12	09/15/2011 11:20		Field Sample

Sample(s) to be used for Lab QC: RMA-WST01A

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/19/11	FedEx	9/19/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 874731024710

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091611-160154-0021
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST13A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST13	09/15/2011 13:16		Field Sample
RMA-WST13B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST13	09/15/2011 16:15		Field Sample
RMA-WST18A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST18	09/15/2011 17:00		Field Sample
RMA-WST19A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST19	09/16/2011 09:00		Field Sample
RMA-WST20A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST20	09/15/2011 16:35		Field Sample
RMA-WST20B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST20	09/15/2011 16:40		Field Sample
UCP-SD36	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW36	09/15/2011 16:05		Field Sample
UCP-SD38	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	UCP-SW38	09/16/2011 17:36		Field Sample
WES-SD25	Sediment/ SAT	Dedicated scoop	TAL Inorganics (incl. Hg), TOC	A (Cool to 4 C), C (Cool to 4 C) (2)	WES-SW25	09/16/2011 16:57		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: TOC=Total Organic Carbon

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	David Cash	9/19/11	FedEx	9/19/11	1645						

FedEx Express — International Air Waybill

For FedEx services worldwide.

DELIVERED 9/21/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/19/11 Sender's FedEx Account Number 108 067 691

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company US EPA Region 2

Address 2890 Woodbridge Ave. Dept./Floor

Address Building 209 MS-230

City Edison State/Province NJ

Country USA ZIP/Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EEI Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1

Total Weight 23 ☑ lbs. ☐ kg

DIM ☐ in. ☐ cm L / W / H

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (soil) FOR LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One

☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

☐ No EEI required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200. USD

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Packages up to 150 lbs. / 68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First (Available to select locations.)

☐ _____ ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only.)

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque

FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: Enter FedEx Acct. No. below. ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

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9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: David Carlson

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For Completion Instructions, see back of fifth page.

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Form ID No. 0402

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USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024775

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092011-150526-0032
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
ADP-WST41A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	ADP-WST41	09/19/2011 10:15		Field Sample
ADP-WST41B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	ADP-WST41	09/19/2011 10:15		Field Sample
ADP-WST41C	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	ADP-WST41	09/19/2011 10:20		Field ~~Sample~~ DC Duplicate
ADP-WST42A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	ADP-WST42	09/19/2011 10:35		MS/MSD
RMA-WST14A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST14	09/16/2011 14:50		Field Sample
RMA-WST14B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST14	09/16/2011 14:50		Field Sample
RMA-WST15A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST15	09/16/2011 14:35		Field Sample
RMA-WST16A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST16	09/16/2011 14:15		Field Sample
RMA-WST16B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST16	09/16/2011 14:15		Field Sample
RMA-WST17A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST17	09/16/2011 14:00		Field Sample
RMA-WST17B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-WST17	09/16/2011 14:00		Field Sample

Sample(s) to be used for Lab QC: ADP-WST42A

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/20/11	FedEx	9/20/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024775

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092011-150526-0032
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMB-WST24A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST24	09/19/2011 17:40		Field Sample
RMB-WST28A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST28	09/19/2011 12:30		Field Sample
RMB-WST29A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST29	09/19/2011 11:35		Field Sample
RMB-WST30A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST30	09/19/2011 12:10		Field Sample
RMB-WST30B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST30	09/19/2011 12:10		MS/MSD
RMB-WST32A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST32	09/19/2011 12:45		Field Sample
RMB-WST34A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST34	09/19/2011 09:35		Field Sample
RMB-WST36A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST36	09/19/2011 09:20		Field Sample
RMB-WST38A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST38	09/19/2011 08:35		Field Sample
RMB-WST39A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST39	09/19/2011 08:00		Field Sample
RMB-WST39B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST39	09/19/2011 08:00		Field Sample

Sample(s) to be used for Lab QC: RMB-WST30B

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/20/11	FedEx	9/20/11	1645						

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024775

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092011-150526-0032
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
RMB-WST40A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	DC-A (Cool to 4 C) (1)	RMB-WST40	09/19/2011 12:00		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/20/11	FedEx	9/20/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/22/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/20/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company USEPA Region 2

Address 2890 Woodbridge Ave

Address Building 209 MS-230 Dept./Floor

City Edison State Province NJ

Country USA ZIP Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 56 ☒ lbs ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Bauxite Processing Mixture FOR LAB TESTING ONLY			$200.-

Has EEI been filed in AES? *For U.S. Export Only: Check One*

☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

☐ No EEI required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.- USD

4 Express Package Service *Packages up to 150 lbs. / 68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations.

☐ _____ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature]

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

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For Completion Instructions, see back of fifth page.

FedEx Tracking Number 8747 3102 4775 Form ID No. 0402

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Questions? Go to our Web site at fedex.com.
Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA Inorganics COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024797

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092111-114019-0036
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
MW-RIN03	QA/QC/ SAT	Grab	Cl	D (Cool to 4 C) (1) DC	Site	09/19/2011 19:00		Rinsate Blank
SCA-GW02	Ground Water/ SAT/RST	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	G-9	09/19/2011 11:25		Field Sample
SCA-GW02F	Filtered Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	G-9	09/19/2011 11:25		Field Sample
SCA-GW03	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	VW16	09/19/2011 17:37		Field Sample
SCA-GW03F	Filtered Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	VW16	09/19/2011 17:37		Field Sample
SCA-GW04	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	G-11	09/19/2011 14:06		Field Sample
SCA-GW04F	Filtered Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	G-11	09/19/2011 14:06		Field Sample
SCA-GW07	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	VW25	09/19/2011 15:51		Field Sample
SCA-GW07F	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	VW25	09/19/2011 15:51		Field Sample
SCA-GW08	Ground Water/ SAT/RST	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-14	09/20/2011 10:22		Field Sample
SCA-GW08F	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-14	09/20/2011 10:22		Field Sample
MW-RIN03	QA/QC/ SAT	Grab	TAL Inorganics (incl. Hg)	A (HNO3 pH<2) (1)	Site	09/19/2011 19:00		Rinsate Blank

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

USEPA Inorganics COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024797

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092111-114019-0036
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
WST-RIN05	QA/QC/ SAT/RST	Grab	TAL Inorganics (incl. Hg)	~~1612~~ DC (HNO3 pH<2) (1)	Site	09/19/2011 07:30		Rinsate Blank

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	Dad Cole	9/21/11	FedEx	9/21/11	1645						

USEPA Inorganics COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024797

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-092111-143107-0038
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
BG-S16A	Soil/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	DG C (Cool to 4 C) (1)	BG-S16	09/21/2011 08:10		Field Sample
FBS-WST44A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	FBS-WST44	09/20/2011 09:25		Field Sample
FBS-WST45A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	FBS-WST45	09/20/2011 09:35		Field Sample
FBS-WST46A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	FBS-WST46	09/20/2011 09:50		Field Sample
RMA-SW57	Surface Water/ SAT/RST	Grab	TAL Inorganics (incl. Hg)	1002 (HNO3 pH<2) (1) DG	RMA	09/20/2011 13:15		Field Sample
SCA-GW01	Ground Water/ SAT/RST	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	VW37	09/20/2011 16:41		MS/MSD
SCA-GW01F	Filtered Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	VW37	09/20/2011 16:41		MS/MSD
SCA-GW05	Ground Water/ SAT/RST	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-13D	09/21/2011 09:15		Field Sample
SCA-GW05F	Filtered Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-13D	09/21/2011 09:15		Field Sample
SCA-GW09	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-19	09/20/2011 12:30		Field Sample
SCA-GW09F	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-19	09/20/2011 12:30		Field Sample

Sample(s) to be used for Lab QC: SCA-GW01, SCA-GW01F

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

USEPA Inorganics COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024797

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-092111-143107-0038
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC DC	Station Location	Collected	Organic Sample #	Sample Type
SCA-GW10	Ground Water/ SAT/RST	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-18	09/20/2011 09:00		Field Sample
SCA-GW10F	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-18	09/20/2011 09:00		Field Sample
SCA-GW11	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-18	09/20/2011 09:05		Field Duplicate
SCA-GW11F	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	1029 (HNO3 pH<2), A (Cool to 4 C) (2)	GM-18	09/20/2011 09:05		Field Duplicate

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

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DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024797

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 3

No: 2-092111-160146-0042
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
FBS-WST43A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	FBS-WST43	09/21/2011 10:00		Field Sample
RMA-SD57	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD57	09/21/2011 10:25		Field Sample
RMA-SD58	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD58	09/21/2011 10:38		Field Sample
RMA-SD59	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD59	09/21/2011 10:55		Field Sample
RMA-SD60	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD60	09/21/2011 11:05		Field Sample
RMA-SD61	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD61	09/21/2011 11:15		Field Sample
RMA-SD62	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD62	09/21/2011 11:20		Field Sample
RMA-SD63	Sediment/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMA-SD63	09/21/2011 11:30		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

(3) DELIVERED 9/23/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/21/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address c/o Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country U.S. Virgin Islands ZIP/Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company US EPA Region 2

Address 2890 Woodbridge Ave

Address Building 209 MS-230 Dept./Floor

City Edison State/Province NJ

Country USA ZIP/Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EEI Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 3 Total Weight 185 ☒ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental samples (soil + water) FOR LAB TESTING ONLY			

Has EEI been filed in AES? *For U.S. Export Only: Check One*
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
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If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.00 USD

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☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

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Credit Card No.

Credit Card Exp. Date

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☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

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This is not authorization to deliver this shipment without a recipient signature.

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USEPA Inorganics COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 874731026138

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092211-101644-0045
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
SCA-GW06	Ground Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg), Cl	~~1020~~ (HNO3 pH<2), ~~A~~ (Cool to 4 C) (2)	G-22	09/21/2011 11:55		Field Sample
SCA-GW06F	Filtered Water/ SAT	Bladder Pump	TAL Inorganics (incl. Hg)	~~1029~~ (HNO3 pH<2) (1)	G-7	09/21/2011 11:55		Field Sample

Sample(s) to be used for Lab QC: SCA-GW06

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: Cl=Chlorides

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—		9/22/11	FedEx	9/22/11	1000						

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DELIVERED 9/23/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/22/11 — Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson — Phone 973-271-7633

Company Western Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted — State Province VI

Country USA — ZIP Postal Code 00820

2 To

Recipient's Name John Bivi — Phone 732-321-4200

Company USEPA Region 2

Address 2890 Woodbridge Ave. — Dept/Floor

Address Building 209 MS-230

City Edison — State Province NJ

Country USA — ZIP Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g. GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 — Total Weight 37 ☑ lbs. ☐ kg — DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (Water) for LAB TESTING ONLY			$200.-

Has EEI been filed in AES? *For U.S. Export Only: Check One*
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: — If other than NLR, enter License Exception:
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.- USD

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☐ _____
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☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other plastic box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

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Credit Card No.

Credit Card Exp. Date

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Enter FedEx Acct. No. below.
☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

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Sender's Signature: Dan Carlson

This is not authorization to deliver this shipment without a recipient signature.

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USEPA Inorganics COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 868315914158

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-092211-102521-0046
Lab: EPA-DESA
Lab Contact: John Birri
Lab Phone: 732-321-4200

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMB-WST22A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST22	09/19/2011 15:20		Field Sample
RMB-WST22B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST22	09/19/2011 15:22		Field Sample
RMB-WST23A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST23	09/19/2011 15:55		Field Sample
RMB-WST23B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST23	09/19/2011 17:00		Field Sample
RMB-WST23C	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST23	09/19/2011 17:10		Field Duplicate
RMB-WST28B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST28	09/19/2011 12:30		Field Sample
RMB-WST29B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST29	09/19/2011 11:35		Field Sample
RMB-WST34B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST34	09/19/2011 09:35		Field Sample
RMB-WST37A	Waste/ SAT/RST	Dedicated scoop	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST37	09/19/2011 08:10		Field Sample
RMB-WST37B	Waste/ SAT/RST	Soil Corer	TAL Inorganics (incl. Hg)	A (Cool to 4 C) (1)	RMB-WST37	09/19/2011 08:10		Field Sample

Special Instructions: pH is greater than 11

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/22/11	FedEx	9/22/11	1000						

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Expanded Service International Air Waybill

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DELIVERED 9/23/11

1 From *Please print and press hard.*

Date 09/22/2011 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name John Birri Phone 732-321-4200

Company USEPA Region 2

Address 2890 Woodbridge Avenue Dept/Floor

Address Building 209 MS-230

City Edison State/Province NJ

Country USA ZIP/Postal Code 08837

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 45 ☒ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Bauxite processing mixture 100 percent cotton for LAB TESTING ONLY may contain soil			$200
COMPLETE IN ENGLISH			

FOLD HERE BEFORE INSERTING IN POUCH.

Has EEI/SED been filed in AES? For U.S. Export Only: Check One

☒ No EEI/SED required, value $2,500 or less per Schedule B Number, no license required (NLR), not subject to ITAR.

☐ No EEI/SED required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200 USD

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Outside the U.S., call your local FedEx office.

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The World On Time.

Not all services and options are available to all destinations.

4a Express Package Service *Packages up to 150 lbs. / 68 kg*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations. Higher rates apply. ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

☐ _____

4b Express Freight Service *Packages over 150 lbs. / 68 kg*

☐ FedEx Intl. Priority Freight ☐ FedEx Intl. Economy Freight

Booking Number REQUIRED
Please call your local FedEx office to book shipments.

5 Packaging

*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Plastic Box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6a Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only. ☐ _____

Does this shipment contain dangerous goods? One box must be checked / ticked.

☐ No ☒ Yes As per attached Shipper's Declaration. ☒ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 _____ x _____ kg ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

6b Broker Selection

Not available with FedEx Intl. First. ☐ Intl. Broker Select To specify a broker other than FedEx.

Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:*

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department license. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract.

WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: _____

This is not authorization to deliver this shipment without a recipient signature.

FedEx Courier Receipt: Date: 09/22/11

For letter of credit shipments only.

Ship and track packages at fedex.com

FedEx Tracking Number 8683 1591 4158 Form ID No. 0425

522

PART 158412 • Rev. Date 4/06
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USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/13/2011
CarrierName: FedEx
AirbillNo: 873693948798

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091311-151533-0004
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B56Z1	Soil/ SAT	Bucket Auger	CLP TCL Semivolatiles/Aroclors	1167 (Cool to 4 C) (2)	BG-S01	09/12/2011 10:00		Field Sample
B56Z3	Soil/ SAT	Bucket Auger	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	BG-S05	09/12/2011 13:30		Field Sample
B56Z4	Soil/ SAT	Bucket Auger	CLP TCL Semivolatiles/Aroclors	1165 (Cool to 4 C) (1)	BG-S06	09/12/2011 13:35		Field Duplicate
B56Z5	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1169 (Cool to 4 C) (1)	ACC-SD01	09/13/2011 09:57		MS/MSD
B56Z8	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1177 (Cool to 4 C) (1)	ACC-SD07	09/13/2011 11:50		Field Sample
B56Z9	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1179 (Cool to 4 C) (1)	MAN-SD16	09/12/2011 14:35		Field Sample
B98N2	Surface Water/ SAT	Grab	BNA(14), ARO(14)	1045 (Cool to 4 C), ~~1046~~ (Cool to 4 C) (4)	MAN-SW16	09/12/2011 14:30		Field Sample
B98S9	Surface Water/ SAT	Grab	BNA(14), ARO(14)	1101 (Cool to 4 C), ~~1102~~ (Cool to 4 C) (4)	ACC-SW07	09/13/2011 11:47		Field Sample

Sample(s) to be used for Lab QC: B56Z1, B56Z5

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/13/11	FedEx	9/13/11	1645						

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/13/2011
CarrierName: FedEx
AirbillNo: 873693948798

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-091311-151747-0005
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B98S3	Surface Water/ SAT	Grab	BNA(14), ARO(14)	DC ~~1089~~ (Cool to 4 C), ~~1090~~ DC (Cool to 4 C) (8)	ACC-SW01	09/13/2011 09:52		MS/MSD

Sample(s) to be used for Lab QC: B98S3

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/13/11	FedEx	9/13/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/15/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/13/11 Sender's FedEx Account Number 108 067 691 (YOUR 9-DIGIT FEDEX ACCOUNT NUMBER ONLY)

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept./Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information ☐ For EU Only. Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 2 Total Weight 126 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (soil + water) for LAB TESTING ONLY			

Has EEI been filed in AES? (For U.S. Export Only: Check One)
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.00 USD

4 Express Package Service *Packages up to 150 lbs./68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations.
☐ _____ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling
☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.
☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/Cheque FedEx Use Only
FedEx Acct. No. 108 067 691
Credit Card No.
Credit Card Exp. Date

Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.
☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party
FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.
20405.016.013.1455.00

9 Required Signature
Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.
Sender's Signature: _____
This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

For Completion Instructions, see back of fifth page.

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FedEx Tracking Number 8736 9394 8798 Form ID No. 0402

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Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/14/2011
CarrierName: FedEx
AirbillNo: 873693948813

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091411-110922-0008
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B5716	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	DC 1179 (Cool to 4 C) (1)	BG-SD53	09/13/2011 14:25		Field Sample
B5717	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1179 (Cool to 4 C) (1)	BG-SD55	09/13/2011 14:53		Field Sample
B98R9	Surface Water/ SAT	Grab	BNA(14), ARO(14)	1081 (Cool to 4 C), 1082 (Cool to 4 C) (4) DC	BG-SW53	09/13/2011 14:22		Field Sample
B98S1	Surface Water/ SAT	Grab	BNA(14), ARO(14)	1085 (Cool to 4 C), 1086 (Cool to 4 C) (4)	BG-SW55	09/13/2011 14:47		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/14/11	FedEx	9/14/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/15/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/14/11 Sender's FedEx Account Number 108 067 691

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address ~~284 Sheffield~~ Ie

Address 284 Sheffield Street Dept./Floor

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EEI Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages Shipper's Load and Count/SLAC 1

Total Weight 60 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (soil + water) for LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One

☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

☐ No EEI required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.- USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations.

☐ _____ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/Cheque FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: Enter FedEx Acct. No. below. ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.003.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: Paul Lee

This is not authorization to deliver this shipment without a recipient signature.

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For Completion Instructions, see back of fifth page.

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Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/15/2011
CarrierName: FedEx
AirbillNo: 873693945170

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091411-180133-0010
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B5715	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	DC 1179 (Cool to 4 C) (1)	ADP-SD50	09/14/2011 12:51		Field Sample
B5718	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1171 (Cool to 4 C) (1)	LCP-SD31	09/14/2011 10:50		Field Sample
B98P7	Surface Water/ SAT	Grab	ARO(14), BNA(14)	1053 (Cool to 4 C), DC 1054 (Cool to 4 C) (4)	LCP-SW31	09/14/2011 10:44		Field Sample
B98R6	Surface Water/ SAT	Grab	BNA(14), ARO(14)	1078 (Cool to 4 C), 1079 (Cool to 4 C) (4)	ADP-SW50	09/14/2011 12:48		Field Sample

Special Instructions:

Shipment for Case Complete? N
Samples Transferred From Chain of Custody #

Analysis Key: ARO=CLP TCL Aroclors, BNA=CLP TCL Semivolatiles

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/15/11	FedEx	9/15/11	1645						

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/15/2011
CarrierName: FedEx
AirbillNo: 873693945170

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 2

No: 2-091511-152733-0015
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B5719	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1171 (Cool to 4 C) (1)	UCP-SD35	09/14/2011 17:05		Field Sample
B5720	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1171 (Cool to 4 C) (1)	RMS-SD45	09/14/2011 18:20		Field Sample
B98R1	Surface Water/ SAT	Grab	ARO(14), BNA(14)	1071 (Cool to 4 C), ~~1072~~ 0C (Cool to 4 C) (4)	RMS-SW45	09/14/2011 18:17		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ARO=CLP TCL Aroclors, BNA=CLP TCL Semivolatiles

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/15/11	FedEx	9/15/11	1645						

FedEx Express

International Air Waybill

For FedEx services worldwide.

DELIVERED 9/17/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/15/11 Sender's FedEx Account Number 108 067 691

SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street

Dept./Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information ☐ For EU Only. Tick here if goods are not in free circulation and provide C.I.

Total Packages Shipper's Load and Count/SLAC 2 Total Weight 118 ☒ lbs ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (soil + water) for LAB TESTING ONLY		USVI	$200.00

Has EEI been filed in AES? *For U.S. Export Only: Check One*
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Same Currency) $200.00 USD

4 Express Package Service *Packages up to 150 lbs./68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations.
☐ ____ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/Cheque FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on Invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature]

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

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FedEx Tracking Number 8736 9394 5170

Form ID No. 0402

Ship and track packages at fedex.com

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Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA CLP Organics COC (REGION COPY)

DateShipped: 9/16/2011
CarrierName: FedEx
AirbillNo: 874731027546

CHAIN OF CUSTODY RECORD

St. Croix Alumina (Renaissance Park)/NJ
Case #: 41746
Cooler #: 1

No: 2-091611-112835-0019

Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B5721	Surface Water/ SAT	Grab	ARO(14), BNA(14)	DC ~~1181~~ (Cool to 4 C), DC ~~1182~~ (Cool to 4 C) (4)	UCP-SW36	09/15/2011 16:02		Field Sample
B98L3	QA/QC/ SAT	Grab	BNA(14), ARO(14)	DC ~~1003~~ (Cool to 4 C), DC ~~1004~~ (Cool to 4 C) (4)	WST-RIN01	09/15/2011 18:25		Rinsate Blank

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: ARO=CLP TCL Aroclors, BNA=CLP TCL Semivolatiles

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/16/11	FedEx	9/16/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/17/11

✓ **Sender's Copy**

1 From *Please print and press hard.*

Date 09/16/11 Sender's FedEx Account Number 108 067 691 FOR FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept./Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g. GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EEI Only: Check here if goods are not in free circulation and provide C.I.

Total Packages Shipper's Load and Count/SLAC 1

Total Weight 60 ☒ lbs ☐ kg

DIM L / W / H in. ☐ cm ☐

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (water) for LAB TESTING ONLY			

Has EEI been filed in AES? *For U.S. Export Only: Check One*
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $ 200.– USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg — *For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.*

☒ FedEx Intl. Priority ☐ FedEx Intl. First — Available to select locations.
☐ ☐ FedEx Intl. Economy — FedEx Envelope and FedEx Pak rate not available.

5 Packaging — *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.*

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☒ SATURDAY Delivery — Available to select locations for FedEx Intl. Priority only.

7 Payment — Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: — Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque

FedEx Acct. No. 108 067 691 — FedEx Use Only

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: — ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference — First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature]

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

For Completion Instructions, see back of fifth page.

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FedEx Tracking Number 8747 3102 7546 Form ID No. 0402

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Questions? Go to our Web site at fedex.com.
Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 868315994718

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 1

No: 2-091911-091117-0024
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Inorganic Sample #	Sample Type
B5724	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	RMA-WST01B	09/16/2011 10:40		Field Sample
B5725	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	RMA-WST01C	09/16/2011 10:45		Field Duplicate
B5727	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	RMA-WST06B	09/15/2011 15:45		Field Sample
B5729	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	RMA-WST12B	09/15/2011 15:00		Field Sample

Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/19/11	FedEx	9/19/11	1400						

FedEx Express

Expanded Service International Air Waybill

For FedEx services worldwide including express freight services, dangerous goods, broker select, and letter of credit.

Sender's Copy

DELIVERED 9/20/11

The World On Time.

1 From *Please print and press hard.*

Date 09/09/11 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept./Floor

Address

City Mountainside State/Province NJ

Country USA ZIP/Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 24 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Bauxite processing mixture FOR LAB TESTING ONLY			$200

DO NOT WRITE BELOW THIS LINE BEFORE INSERTING IN POUCH.

COMPLETE IN ENGLISH.

Has EEI/SED been filed in AES? For U.S. Export Only: Check One

☒ No EEI/SED required, value $2,500 or less per Schedule B Number, no license required (NLR), not subject to ITAR.

☐ No EEI/SED required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200 USD

For Completion Instructions, see back of fifth page.

Questions?
Go to our Web site at fedex.com.
or
In the U.S., call 1.800.247.4747.
Outside the U.S., call your local FedEx office.

The terms and conditions of service may vary from country to country. Consult our local office for specific information.
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Not all services and options are available to all destinations.

4a Express Package Service *Packages up to 150 lbs. / 68 kg*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations. Higher rates apply. ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

☐ _____

4b Express Freight Service *Packages over 150 lbs. / 68 kg*

☐ FedEx Intl. Priority Freight ☐ FedEx Intl. Economy Freight

Booking Number REQUIRED
Please call your local FedEx office to book shipments.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other ~~Cooler Plastic~~ Box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6a Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only. ☐ _____

Does this shipment contain dangerous goods? One box must be checked / ticked.

☐ No ☒ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 _____ x _____ kg ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

6b Broker Selection Not available with FedEx Intl. First. ☐ Intl. Broker Select To specify a broker other than FedEx.

Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/ Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:* ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department license. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract.

WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: _____
This is not authorization to deliver this shipment without a recipient signature.

FedEx Courier Receipt: Date: 09/19/11
For letter of credit shipments only.

Ship and track packages at fedex.com

FedEx Tracking Number 8683 1599 4718 Form ID No. 0425

522

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USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 874731024753

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 1

No: 2-091611-161158-0022
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B5722	Sediment/ SAT	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1183 (Cool to 4 C) (1)	UCP-SD36	09/15/2011 16:05		Field Sample
B5723	Waste/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1183 (Cool to 4 C) (2)	RMA-WST01A	09/16/2011 10:40		MS/MSD
B5726	Waste/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1183 (Cool to 4 C) (1)	RMA-WST06A	09/16/2011 15:45		Field Sample
B5728	Waste/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1183 (Cool to 4 C) (1)	RMA-WST12A	09/15/2011 11:20		Field Sample
B98L4	QA/QC/ SAT	Grab	BNA(14), ARO(14)	1186 (Cool to 4 C), ~~1187~~ DC (Cool to 4 C) (4)	WST-RIN02	09/16/2011 15:21		Rinsate Blank

Sample(s) to be used for Lab QC: B5723

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	Dmi/Mh	9/19/11	FedEx	9/19/11	1645						

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 874731024753

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 2

No: 2-091911-155948-0027
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B98L9	QA/QC/ SAT	Grab	VOA(14)	DC ~~4015~~ (HCl pH<2) (3)	SCA-TB01	09/19/2011 10:45		Trip Blank
B98T2	Ground Water/ SAT/RST	Grab	VOA(14)	DC ~~1111~~ (HCl pH<2) (3)	SCA-GW02	09/19/2011 11:25		Field Sample
B98T6	Ground Water/ SAT	Grab	BNA(14), ARO(14), VOA(14)	DC ~~1121~~ (Cool to 4 C), ~~1122~~ DC (Cool to 4 C), ~~1123~~ (HCl pH<2) (7) DC	SCA-GW04	09/19/2011 14:06		Field Sample
B98W2	Ground Water/ SAT	Grab	VOA(14)	DC ~~1141~~ (HCl pH<2) (3)	SCA-GW07	09/19/2011 15:51		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP TCL Volatiles, BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/19/11	FedEx	9/19/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/21/11

✓ Sender's Copy

1 From *Please print and press hard.*

Date 09/19/11 Sender's FedEx Account Number 108 067 691 NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept/Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 2 Total Weight 107 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental samples (soil + water) FOR LAB TESTING ONLY			

Has EEI been filed in AES? *For U.S. Export Only: Check One*
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Same Currency) 1200.- USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations.
☐ _____ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/Cheque FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature] *This is not authorization to deliver this shipment without a recipient signature.*

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Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024742

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 1

No: 2-092011-084645-0028
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B98L5	QA/QC/ SAT	Grab	VOA(14), BNA(14), ARO(14)	DC ~~1000~~ (HCl pH<2), ~~1001~~ DC (Cool to 4 C), ~~6~~ (Cool to 4 C) (7) DC	MW-RIN03	09/19/2011 19:00		Rinsate Blank
B98L7	QA/QC/ SAT/RST	Grab	BNA(14), ARO(14)	DC ~~1013~~ (Cool to 4 C), ~~1014~~ DC (Cool to 4 C) (4)	WST-RIN05	09/19/2011 07:30		Rinsate Blank
B98M0	QA/QC/ SAT	Grab	VOA(14)	DC 1017 (HCl pH<2) (3)	SCA-TB02	09/19/2011 18:00		Trip Blank
B98T4	Ground Water/ SAT	Grab	VOA(14)	1117 (HCl pH<2) (3)	SCA-GW03	09/19/2011 17:37		Field Sample
B98W4	Ground Water/ SAT/RST	Grab	VOA(14)	1143 (HCl pH<2) (3)	SCA-GW08	09/20/2011 10:22		Field Sample
B98W6	Ground Water/ SAT	Grab	VOA(14)	1145 (HCl pH<2) (3)	SCA-GW09	09/20/2011 12:30		Field Sample
B98W8	Ground Water/ SAT/RST	Grab	VOA(14)	1149 (HCl pH<2) (3)	SCA-GW10	09/20/2011 09:00		Field Sample
B98X0	Ground Water/ SAT	Grab	VOA(14)	1153 (HCl pH<2) (3)	SCA-GW11	09/20/2011 09:05		Field Duplicate

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP TCL Volatiles, BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
———	[signature]	9/20/11	FedEx	9/20/11	1645						

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024742

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 2

No: 2-092011-154832-0033
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B4A18	Surface Water/ SAT/RST	Grab	BNA(14), ARO(14)	~~1188~~ (Cool to 4 C), ~~1189~~ (Cool to 4 C) (4) DC DC	RMA-SW57	09/20/2011 13:15		Field Sample
B98W8	Ground Water/ SAT/RST	Grab	BNA(14), ARO(14)	~~1147~~ (Cool to 4 C), ~~1148~~ (Cool to 4 C) (4) DC DC	SCA-GW10	09/20/2011 09:00		Field Sample
B98X0	Ground Water/ SAT	Grab	ARO(14), BNA(14)	~~1155~~ (Cool to 4 C), ~~1156~~ (Cool to 4 C) (4) DC DC	SCA-GW11	09/20/2011 09:05		Field Duplicate

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	Dmitch	9/20/11	FedEx	9/20/11	1645						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/22/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/20/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept./Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 2 Total Weight 145 [X] lbs. [ ] kg DIM L / W / H [ ] in. [ ] cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (water) FOR LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One
[ ] No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
[ ] No EEI required, enter exemption number:
[ ] Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200 – USD

4 Express Package Service *Packages up to 150 lbs. / 68 kg*
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

[X] FedEx Intl. Priority [ ] FedEx Intl. First (Available to select locations.)
[ ] [ ] FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

[ ] FedEx Envelope [ ] FedEx Pak [ ] FedEx Box [ ] FedEx Tube
[X] Other Cooler [ ] FedEx 10kg Box* [ ] FedEx 25kg Box*

6 Special Handling

[ ] HOLD at FedEx Location [ ] SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only.)

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

[ ] Sender (Acct. No. in Section 1 will be billed.) [ ] Recipient [X] Third Party [ ] Credit Card [ ] Cash/Check/Cheque

FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Enter FedEx Acct. No. below.

[ ] Sender (Acct. No. in Section 1 will be billed.) [ ] Recipient [X] Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature:

This is not authorization to deliver this shipment without a recipient signature.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

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Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024786

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 1

No: 2-092111-105601-0035
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B98M1	QA/QC/ SAT	Grab	VOA(14)	DC 1018 (HCl pH<2) (3)	SCA-TB03	09/20/2011 18:10		Trip Blank
B98T0	Ground Water/ SAT/RST	Bladder Pump	BNA(14), ARO(14)	1103 (Cool to 4 C), ~~1104~~ DC (Cool to 4 C) (8)	SCA-GW01	09/20/2011 16:41		MS/MSD
B98T8	Ground Water/ SAT/RST	Bladder Pump	VOA(14)	1119 (HCl pH<2) (3)	SCA-GW05	09/21/2011 09:15		Field Sample

Sample(s) to be used for Lab QC: B98T0

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP TCL Volatiles, BNA=CLP TCL Semivolatiles, ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024786

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 2

No: 2-092111-154225-0041
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles QC	Station Location	Collected	Inorganic Sample #	Sample Type
B4A13	Waste/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	RMB-WST36A	09/19/2011 09:20		Field Sample
B4A15	Waste/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	C (Cool to 4 C) (2)	ADP-WST42A	09/19/2011 10:35		MS/MSD
B4A16	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	ADP-WST41B	09/19/2011 10:15		Field Sample
B4A17	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	1163 (Cool to 4 C) (1)	ADP-WST41C	09/19/2011 10:20		Field ~~Sample~~ Duplicate
B4A20	Soil/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1194 (Cool to 4 C) (1)	BG-S16A	09/21/2011 08:10		Field Sample
B4A21	Sediment/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1171 (Cool to 4 C) (1)	RMA-SD57	09/21/2011 10:25		Field Sample
B4A22	Sediment/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	1171 (Cool to 4 C) (1)	RMA-SD59	09/21/2011 10:55		Field Sample
B4A23	Sediment/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	F (Cool to 4 C) (1)	RMA-SD62	09/21/2011 11:20		Field Sample
B4A24	Sediment/ SAT/RST	Dedicated scoop	CLP TCL Semivolatiles/Aroclors	F (Cool to 4 C) (1)	RMA-SD63	09/21/2011 11:30		Field Sample
B4A25	Waste/ SAT/RST	Soil Corer	CLP TCL Semivolatiles/Aroclors	C (Cool to 4 C) (1)	ADP-WST42B	09/19/2011 10:35		Field Sample

Sample(s) to be used for Lab QC: B4A15

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	David Ch	9/21/11	FedEx	9/21/11	1645						

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Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept/Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

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Total Packages (Shipper's Load and Count/SLAC) 2 Total Weight 110 ☒ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental Samples (water) FOR LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
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DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 868315994751

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 1

No: 2-092111-151619-0039
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
B98M2	QA/QC/ SAT	Grab	VOA(14)	DC ~~1019~~ (HCl pH<2) (3)	SCA-TB04	09/21/2011 15:15		Trip Blank
B98W0	Ground Water/ SAT	Bladder Pump	BNA(14), VOA(14)	DC ~~1139~~ (Cool to 4 C), ~~1135~~ DC (HCl pH<2) (7)	SCA-GW06	09/21/2011 11:55		Field Sample

Sample(s) to be used for Lab QC: B98W0 - Special Instructions: pH is greater than 11

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: VOA=CLP TCL Volatiles, BNA=CLP TCL Semivolatiles

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/22/11	FedEx	9/22/11	1000						

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DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 868315994751

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Case # 41746
Cooler #: 2

No: 2-092111-152631-0040
Lab: ChemTech Consulting Group
Lab Contact: Divya Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles 06	Station Location	Collected	Inorganic Sample #	Sample Type
B98W0	Ground Water/ SAT	Bladder Pump	ARO(14)	~~1134~~ (Cool to 4 C) (4)	SCA-GW06	09/21/2011 11:55		Field Sample

Sample(s) to be used for Lab QC: B98W0 - Special Instructions: pH is greater than 11

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: ARO=CLP TCL Aroclors

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	David Cole	9/22/11	FedEx	9/22/11	1000						

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Company Nestor Solutions, Inc.

Address Tamarind Beef Hotel

Address 5001 Tamarind Beef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Divya Mehta Phone 908-789-8900

Company Chemtech Consulting Group

Address 284 Sheffield street Dept./Floor

Address

City Mountainside State Province NJ

Country USA ZIP Postal Code 07092

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages (Shipper's Load and Count/SLAC) 2

Total Weight 44 ☒ lbs. ☐ kg

DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
~~Example: 1-man's knitted sweater~~ ~~Environmental Samples (water) for lab testing only~~ Soil			$200
Corrosive liquid, basic, organic, n.o.s. (bauxite processing mixture)			

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Total Value for Customs (Specify Currency) $200 USD

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ZIP / Postal Code REQUIRED Phone

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DateShipped: 9/19/2011
CarrierName: FedEx
AirbillNo: 874731024731

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-091711-140743-0023
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST01A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST01	09/16/2011 10:40		MS/MSD
RMA-WST02A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST02	09/15/2011 08:10		Field Sample
RMA-WST03A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST03	09/15/2011 10:30		Field Sample
RMA-WST04A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST04	09/15/2011 10:55		Field Sample
RMA-WST06A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST06	09/16/2011 15:45		Field Sample
RMA-WST07A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST07	09/16/2011 09:50		Field Sample
RMA-WST09A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST09	09/16/2011 09:15		Field Sample
RMA-WST09B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST09	09/16/2011 09:15		Field Sample
RMA-WST11A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST11	09/16/2011 11:20		Field Sample
RMA-WST12A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST12	09/15/2011 11:20		Field Sample
RMA-WST14A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST14	09/16/2011 14:50		Field Sample

Sample(s) to be used for Lab QC: RMA-WST01A

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

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DateShipped: 9/19/2011
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CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-091711-140743-0023
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST14B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST14	09/16/2011 14:50		Field Sample
RMA-WST15A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST15	09/16/2011 14:35		Field Sample
RMA-WST16A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST16	09/16/2011 14:15		Field Sample
RMA-WST16B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST16	09/16/2011 14:15		Field Sample
RMA-WST17A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST17	09/16/2011 14:00		Field Sample
RMA-WST17B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST17	09/16/2011 14:00		Field Sample
RMA-WST18A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST18	09/15/2011 17:00		Field Sample
RMA-WST19A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST19	09/16/2011 09:00		Field Sample
RMA-WST20A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST20	09/15/2011 16:35		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Cindy White Phone 334-270-7052

Company USEPA / NAREL

Address 540 S. Morris Avenue Dept./Floor

Address

City Montgomery State Province AL

Country USA ZIP Postal Code 36115

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Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 61 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Bauxite processing mixture FOR LAB TESTING ONLY			

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☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number: If other than NLR, enter License Exception:
☐ Yes – Enter AES proof of filing citation:

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USEPA NAREL COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024764

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092011-130824-0030
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
ADP-WST41A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	ADP-WST41	09/19/2011 10:15		Field Sample
ADP-WST41B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	ADP-WST41	09/19/2011 10:15		Field Sample
ADP-WST41C	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	ADP-WST41	09/19/2011 10:20		Field ~~Sample~~ DC Duplicate
ADP-WST42A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	ADP-WST42	09/19/2011 10:35		MS/MSD
ADP-WST42B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	ADP-WST42	09/19/2011 10:35		Field Sample
FBS-WST44A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	FBS-WST44	09/20/2011 09:25		Field Sample
FBS-WST45A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	FBS-WST45	09/20/2011 09:35		Field Sample
FBS-WST46A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	FBS-WST46	09/20/2011 09:50		Field Sample
RMB-WST24A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST24	09/19/2011 17:40		Field Sample
RMB-WST28A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST28	09/19/2011 12:30		Field Sample
RMB-WST29A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST29	09/19/2011 11:35		Field Sample

Sample(s) to be used for Lab QC: ADP-WST42A

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/20/11	FedEx	9/20/11	1645						

USEPA NAREL COC (REGION COPY)
DateShipped: 9/20/2011
CarrierName: FedEx
AirbillNo: 874731024764

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092011-130824-0030
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMB-WST30A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST30	09/19/2011 12:10		Field Sample
RMB-WST30B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST30	09/19/2011 12:10		MS/MSD
RMB-WST32A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST32	09/19/2011 12:45		Field Sample
RMB-WST34A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST34	09/19/2011 09:35		Field Sample
RMB-WST36A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST36	09/19/2011 09:20		Field Sample
RMB-WST38A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST38	09/19/2011 08:35		Field Sample
RMB-WST39A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST39	09/19/2011 08:00		Field Sample
RMB-WST39B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST39	09/19/2011 08:00		Field Sample
RMB-WST40A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST40	09/19/2011 12:00		Field Sample

Sample(s) to be used for Lab QC: RMB-WST30B

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/20/11	FedEx	9/20/11	1645						

FedEx Express — International Air Waybill

For FedEx services worldwide.

DELIVERRA 9/22/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/20/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Cindy White Phone 334-270-7052

Company USEPA/NAREL

Address 540 S. Morris Avenue Dept./Floor

Address

City Montgomery State Province AL

Country USA ZIP Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 60 ☒ lbs ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Bauxite processing mixture FOR LAB TESTING ONLY			

Has EEI been filed in AES? For U.S. Export Only: Check One
☒ No EEI required, value $2,500 or less per Sch. B Number, or license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200.00 USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First (Available to select locations.)
☐ _____ ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

5 Packaging

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☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other ~~Cooler~~ Plastic Box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

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FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

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☐ Sender (Acct. No. in Section 1 will be billed.) ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

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20405.016.013.1455.00

9 Required Signature

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Sender's Signature: [signature]

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USEPA NAREL COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 868315994740

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092111-103224-0034
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST01B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (2)	RMA-WST01	09/16/2011 10:40		Field Sample
RMA-WST01C	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (2)	RMA-WST01	09/16/2011 10:45		Field Duplicate
RMA-WST03B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (2)	RMA-WST03	09/15/2011 14:30		Field Sample
RMA-WST10B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (2)	RMA-WST10	09/16/2011 11:05		MS/MSD
RMA-WST12B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (2)	RMA-WST12	09/15/2011 15:00		Field Sample

Sample(s) to be used for Lab QC: RMA-WST10B - Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1400						

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The World On Time.

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1 From *Please print and press hard.*

Date 09/21/11 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name Cindy White Phone 334-270-7052

Company USEPA/NAREL

Address 540 S. Morris Avenue Dept./Floor

Address

City Montgomery State/Province AL

Country USA ZIP/Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 22 ☒ lbs. ☐ kg DIM ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Bauxite processing mixture FOR LAB TESTING ONLY		USVI	$200-

FOLD HERE BEFORE INSERTING IN POUCH

COMPLETE IN ENGLISH.

Has EEI/SED been filed in AES? For U.S. Export Only: Check One

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $200- USD

☒ No EEI/SED required, value $2,500 or less per Schedule B Number, no license required (NLR), not subject to ITAR.

If other than NLR, enter License Exception:

☐ No EEI/SED required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

4a Express Package Service *Packages up to 150 lbs. / 68 kg*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations. Higher rates apply. ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

☐

4b Express Freight Service *Packages over 150 lbs. / 68 kg*

☐ FedEx Intl. Priority Freight ☐ FedEx Intl. Economy Freight

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☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Plastic Box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6a Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only. ☐

Does this shipment contain dangerous goods? One box must be checked / ticked.

☐ No ☒ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

6b Broker Selection Not available with FedEx Intl. First. ☐ Intl. Broker Select To specify a broker other than FedEx.

Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash Check/ Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:* ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

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☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

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WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: *This is not authorization to deliver this shipment without a recipient signature.*

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USEPA NAREL COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024801

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092111-130009-0037
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
ADP-SD49	Sediment/ SAT	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	ADP-SW49	09/14/2011 12:07		Field Sample
BG-S01	Soil/ SAT	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (Cool to 4 C) (1)	BG-S01	09/12/2011 10:00		Field Sample
BG-S07	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S07	09/20/2011 16:50		Field Sample
BG-S08	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S08	09/20/2011 17:00		Field Sample
BG-S09	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S09	09/20/2011 17:10		Field Sample
BG-S10	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S10	09/20/2011 17:15		Field Sample
BG-S11	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S11	09/20/2011 17:20		Field Sample
BG-S12	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S12	09/20/2011 17:25		Field Sample
BG-S13	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S13	09/20/2011 17:30		Field Sample
BG-S14	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S14	09/20/2011 17:40		Field Sample
BG-S15	Soil/ RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S15	09/20/2011 17:45		Field Sample

Sample(s) to be used for Lab QC: BG-S01

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

USEPA NAREL COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 874731024801

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092111-130009-0037
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
BG-S16A	Soil/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	BG-S16	09/21/2011 08:10		Field Sample
LCP-SD33	Sediment/ SAT	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	LCP-SW33	09/14/2011 12:05		Field Sample
RMA-WST13A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST13	09/15/2011 13:16		Field Sample
RMA-WST13B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST13	09/15/2011 16:15		Field Sample
RMA-WST20B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST20	09/15/2011 16:40		Field Sample
RMA-WSTR01A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WSTR01	09/21/2011 09:00		Field Sample
RMA-WSTR02A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST02	09/21/2011 09:15		Field Sample
RMS-SD45	Sediment/ SAT	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMS-SW45	09/14/2011 18:20		Field Sample
UCP-SD35	Sediment/ SAT	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	UCP-SW35	09/14/2011 17:05		Field Sample
UCP-SD37	Sediment/ SAT	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	UCP-SW37	09/14/2011 17:43		Field Sample
UCP-SD39	Sediment/ SAT	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	UCP-SW39	09/14/2011 17:25		Field Sample

Special Instructions:

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	1645						

FedEx Express — International Air Waybill

For FedEx services worldwide.

DELIVERED 9/23/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/21/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Cindy White Phone 334-270-7052

Company USEPA/NAREL

Address 540 S. Morris Avenue Dept./Floor

Address

City Montgomery State Province AL

Country USA ZIP Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1

Total Weight 2 lbs. kg DIM L / W / H in. cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
B Environmental Samples (soil) FOR LAB PROCESSING ONLY			

Has EEI been filed in AES? *For U.S. Export Only: Check One*

- No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
- No EEI required, enter exemption number:
- Yes – Enter AES proof of filing citation:

If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Same as Commercial Invoice) $200.00 USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

- [x] FedEx Intl. Priority
- [ ] FedEx Intl. First — Available to select locations.
- [ ] _____
- [ ] FedEx Intl. Economy — FedEx Envelope and FedEx Pak rate not available.

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- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other Cooler
- [ ] FedEx 10kg Box*
- [ ] FedEx 25kg Box*

6 Special Handling

- [ ] HOLD at FedEx Location
- [ ] SATURDAY Delivery — Available to select locations for FedEx Intl. Priority only.

7 Payment

Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to:

Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [x] Third Party
- [ ] Credit Card
- [ ] Cash/Cheque — FedEx Use Only

FedEx Acct. No. 108 067 691

Credit Card No.

Credit Card Exp. Date

Bill duties and taxes to:

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

- [ ] Sender Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [x] Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: David Clark

This is not authorization to deliver this shipment without a recipient signature.

For Completion Instructions, see back of fifth page.

568

PART 158410•Rev. Date 11/08
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FedEx Tracking Number 8747 3102 4801

Form ID No. 0402

Ship and track packages at fedex.com

The terms and conditions of service may vary from country to country. Consult our local office for specific information.
Non-Negotiable International Air Waybill • ©1994–2008 FedEx

Questions? Go to our Web site at fedex.com.

Or in the U.S., call 1.800.GoFedEx 1.800.463.3339. Outside the U.S., call your local FedEx office.

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

USEPA NAREL COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 868315994730

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092011-124541-0029
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST02B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST02	09/15/2011 11:35		Field Sample
RMA-WST04B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST04	09/15/2011 14:51		Field Sample
RMA-WST05A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST05	09/15/2011 15:30		Field Sample
RMA-WST05B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST05	09/15/2011 15:22		Field Sample
RMA-WST06B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST06	09/15/2011 15:45		Field Sample
RMA-WST07B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST07	09/16/2011 09:50		Field Sample
RMA-WST08A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST08	09/16/2011 09:35		Field Sample
RMA-WST10A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST10	09/16/2011 11:00		Field Sample
RMA-WST11B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST11	09/16/2011 11:20		Field Sample
RMA-WST11C	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST11	09/16/2011 11:25		Field Duplicate

Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	0930						

Revised COC 9/28/11 DC

USEPA NAREL COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 868315994730

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092011-124541-0029
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST02B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST02	09/15/2011 11:35		Field Sample
RMA-WST04B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST04	09/15/2011 14:51		Field Sample
RMA-WST05A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST05	09/15/2011 15:30		Field Sample
RMA-WST05B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST05	09/15/2011 15:22		Field Sample
RMA-WST06B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST06	09/15/2011 15:45		Field Sample
RMA-WST07B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST07	09/16/2011 09:50		Field Sample
RMA-WST08A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST08	09/16/2011 09:35		Field Sample
RMA-WST10A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST10	09/16/2011 11:00		Field Sample
RMA-WST11B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST11	09/16/2011 11:20		Field Sample
RMA-WST11C	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST11	09/16/2011 11:25		Field Duplicate
RMA-WST19B	Waste/ SAT/RST	Bucket Auger	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST19	09/16/2011 09:00		Field Sample

Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	0930						

USEPA NAREL COC (REGION COPY)
DateShipped: 9/21/2011
CarrierName: FedEx
AirbillNo: 868315994730

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 2

No: 2-092011-133530-0031
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMB-WST22A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST22	09/19/2011 15:20		Field Sample
RMB-WST22B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST22	09/19/2011 15:22		Field Sample
RMB-WST23A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST23	09/19/2011 15:55		Field Sample
RMB-WST23B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST23	09/19/2011 17:00		Field Sample
RMB-WST23C	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST23	09/19/2011 17:10		Field Duplicate
RMB-WST28B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST28	09/19/2011 12:30		Field Sample
RMB-WST29B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST29	09/19/2011 11:35		Field Sample
RMB-WST34B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST34	09/19/2011 09:35		Field Sample
RMB-WST37A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST37	09/19/2011 08:10		Field Sample
RMB-WST37B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMB-WST37	09/19/2011 08:10		Field Sample

Special Instructions: pH is greater than 11

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/21/11	FedEx	9/21/11	0930						

FedEx Express

Expanded Service International Air Waybill

For FedEx services worldwide including express freight services, dangerous goods, broker select, and letter of credit.

Sender's Copy

DELIVERED 9/23/11

The World On Time.

1 From *Please print and press hard.*

Date ~~09/20/11~~ 09/21/11 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To

Recipient's Name Cindy White Phone 334-270-7052

Company USEPA/NAREL

Address 540 S. Morris Avenue Dept/Floor

Address

City Montgomery State/Province AL

Country USA ZIP/Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages (Shipper's Load and Count/SLAC) 2 Total Weight 60 ☐ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Example: 1 man's knitted sweater, 100% cotton			
Bauxite Processing Mixture FOR LAB TESTING ONLY		USVI	$200-

FOLD HERE BEFORE INSERTING IN POUCH.

Has EEI/SED been filed in AES? *For U.S. Export Only: Check One*

☒ No EEI/SED required, value $2,500 or less per Schedule B Number, no license required (NLR), not subject to ITAR.

☐ No EEI/SED required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200- USD

For Completion Instructions, see back of fifth page.

Questions?
Go to our Web site at fedex.com.
or
In the U.S., call 1.800.247.4747.
Outside the U.S., call your local FedEx office.

The terms and conditions of service may vary from country to country. Consult our local office for specific information.
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Not all services and options are available to all destinations.

4a Express Package Service *Packages up to 150 lbs. / 68 kg*

☒ FedEx Intl. Priority ☐ FedEx Intl. First (Available to select locations. Higher rates apply.) ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

☐ _____

4b Express Freight Service *Packages over 150 lbs. / 68 kg*

☐ FedEx Intl. Priority Freight ☐ FedEx Intl. Economy Freight

Booking Number REQUIRED
Please call your local FedEx office to book shipments.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Plastic Box (2) ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6a Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only.) ☐ _____

Does this shipment contain dangerous goods? One box must be checked / ticked.

☐ No ☒ Yes (As per attached Shipper's Declaration.) ☐ Yes (Shipper's Declaration not required.)

☐ Dry Ice (Dry ice, 9, UN 1845 _____ x _____ kg) ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

6b Broker Selection (Not available with FedEx Intl. First.) ☐ Intl. Broker Select (To specify a broker other than FedEx.)

Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender (Acct. No. in Section 1 will be billed.) ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:* ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender (Acct. No. in Section 1 will be billed.) ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department license. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract.

WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: Dan Carlson

This is not authorization to deliver this shipment without a recipient signature.

FedEx Courier Receipt: Date: ~~09/20/11~~ 09/21/11

For letter of credit shipments only.

Ship and track packages at fedex.com

FedEx Tracking Number 8683 1599 4730 Form ID No. 0425

522

PART 158412 • Rev. Date 4/06
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USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 868315914147

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092211-085743-0044
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-WST06B(2)	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST06	09/15/2011 15:45		Field Sample
RMA-WST08B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (2)	RMA-WST08	09/16/2011 09:35		Field Sample
RMA-WST18B	Waste/ SAT/RST	Soil Corer	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	RMA-WST18	09/15/2011 17:00		Field Sample

Special Instructions: pH is greater than 11. RMA-WST06B(2) is the second bottle for RAD analysis from sample RMA-WST06B. The first bottle was sent on 9/21/11 under chain of custidy # 2-092011-124541-0029.

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	David Lah	9/22/11	FedEx	9/22/11	1000						

FedEx Express

Expanded Service International Air Waybill

For FedEx services worldwide including express freight services, dangerous goods, broker select, and letter of credit.

Sender's Copy

MEMPHIS DELIVERED 9/27/11

1 From *Please print and press hard.*

Date 09/22/11 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Cindy White Phone 334-270-7052

Company USEPA/NAREL

Address 540 So. Main Street Dept./Floor

Address

City Montgomery State Province AL

Country USA ZIP Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

Total Packages Shipper's Load and Count/SLAC 1 Total Weight 44 ☒ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Bauxite Processing Sample Material for LAB TESTING ONLY		USVI	$200.-
May contain soil			
COMPLETE IN ENGLISH.			

FOLD HERE BEFORE INSERTING IN POUCH.

Has EEI/SED been filed in AES? *For U.S. Export Only: Check One*

☒ No EEI/SED required, value $2,500 or less per Schedule B Number, no license required (NLR), not subject to ITAR.

☐ No EEI/SED required, enter exemption number:

☐ Yes – Enter AES proof of filing citation:

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200.- USD

For Completion Instructions, see back of fifth page.

Questions?
Go to our Web site at fedex.com.
or
In the U.S., call 1.800.247.4747.
Outside the U.S., call your local FedEx office.

The terms and conditions of service may vary from country to country. Consult our local office for specific information.
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The World On Time.

Not all services and options are available to all destinations.

4a Express Package Service *Packages up to 150 lbs. / 68 kg*

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations. Higher rates apply. ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

☐ ___

4b Express Freight Service *Packages over 150 lbs. / 68 kg*

☐ FedEx Intl. Priority Freight ☐ FedEx Intl. Economy Freight

Booking Number REQUIRED
Please call your local FedEx office to book shipments.

5 Packaging

*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Plastic Box ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6a Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only. ☐ ___

Does this shipment contain dangerous goods? One box must be checked / ticked.

☐ No ☒ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry ice, 9, UN 1845 ___ x ___ kg ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

6b Broker Selection

Not available with FedEx Intl. First. ☐ Intl. Broker Select To specify a broker other than FedEx.

Broker's Name

City / State / Province / Country

ZIP / Postal Code REQUIRED Phone

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash Check/ Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:*

ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference

First 24 characters will appear on invoice.

20405.016.013.1455.00

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department license. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract.

WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature:

This is not authorization to deliver this shipment without a recipient signature.

FedEx Courier Receipt: Date: 9/22/11

For letter of credit shipments only.

Ship and track packages at fedex.com

FedEx Tracking Number 8683 1591 4147 Form ID No. 0425

522

PART 158412 • Rev. Date 4/06
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USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 874731026116

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092211-083246-0043
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
FBS-WST43A	Waste/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	B (None) (1)	FBS-WST43	09/21/2011 10:00		Field Sample
RMA-SD57	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD57	09/21/2011 10:25		Field Sample
RMA-SD58	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD58	09/21/2011 10:38		Field Sample
RMA-SD59	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD59	09/21/2011 10:55		Field Sample
RMA-SD60	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD60	09/21/2011 11:05		Field Sample
RMA-SD61	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD61	09/21/2011 11:15		Field Sample
RMA-SD62	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD62	09/21/2011 11:20		Field Sample
RMA-SD63	Sediment/ SAT/RST	Dedicated scoop	Gamma Spec Ra-226/Ra-228/K-40, Isotopic Th/U	E (None) (1)	RMA-SD63	09/21/2011 11:30		Field Sample

Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	Dan Lahr	9/22/11	FedEx	9/22/11	1000						

FedEx Express **International Air Waybill**
For FedEx services worldwide.

DELIVERED 9/26/11
~~MEMPHIS~~ ~~CLEAR~~

Sender's Copy

1 From *Please print and press hard.*

Date 09/22/11 Sender's FedEx Account Number SENDER'S FEDEX ACCOUNT NUMBER ONLY

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State Province VI

Country USA ZIP Postal Code 00820

2 To

Recipient's Name Cindy White Phone

Company USEPA NAREL

Address 540 S. Morris Avenue Dept/Floor

Address

City Montgomery State Province AL

Country USA ZIP Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

For EU Duty: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 1

Total Weight 34 lbs. ☐ kg ☐ DIM L / W / H in. ☐ cm ☐

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Battery packaging material for LAB TESTING ONLY may contain soil			$200-

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:

Total Declared Value for Carriage
If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200- USD

4 Express Package Service

Packages up to 150 lbs. / 68 kg
For packages over 150 lbs. (68 kg), use the FedEx Expended Service Intl. Air Waybill.

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☐ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging

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☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube
☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment

Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to:
Enter FedEx Acct. No. or Credit Card No. below.
☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque
FedEx Acct. No. 108 067 691 FedEx Use Only
Credit Card No.
Credit Card Exp. Date

Bill duties and taxes to:
ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.
Enter FedEx Acct. No. below.
☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party
FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.
20405.016.013.1455.00

9 Required Signature

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Sender's Signature: Paul Wagner

This is not authorization to deliver this shipment without a recipient signature.

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568

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USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 865869642224

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092211-112105-0047
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
RMA-SW57	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	A (None) (1)	RMA	09/20/2011 13:15		Field Sample
RMS-SW45	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	RMS-SW45	09/14/2011 18:17		Field Sample
SCA-GW01	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	VW37	09/20/2011 16:41		MS/MSD
SW-RMA-WST12	Water/ RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	A (None) (1)	RMA-WST12	09/15/2011 15:00		Field Sample
UCP-SW35	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	UCP-SW35	09/14/2011 17:00		Field Sample
UCP-SW39	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	UCP-SW39	09/14/2011 17:20		Field Sample

Sample(s) to be used for Lab QC: SCA-GW01

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/22/11	FedEx	9/22/11	1300						

Revised COC 9/28/11 DC

USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 865869642224

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 1

No: 2-092211-112105-0047
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
RMA-SW57	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	A (HNO3 pH<2) (1)	RMA	09/20/2011 13:15		Field Sample
RMS-SW45	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	RMS-SW45	09/14/2011 18:17		Field Sample
SCA-GW01	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	VW37	09/20/2011 16:41		MS/MSD
SW-RMA-WST12	Water/ RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	A (HNO3 pH<2) (1)	RMA-WST12	09/15/2011 15:00		Field Sample
UCP-SW35	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	UCP-SW35	09/14/2011 17:00		Field Sample
UCP-SW39	Surface Water/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	UCP-SW39	09/14/2011 17:20		Field Sample

Sample(s) to be used for Lab QC: SCA-GW01

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	Dan Cohn	9/22/11	FedEx	9/22/11	1300						

USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 865869642224

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 2

No: 2-092211-115537-0048
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
SCA-GW05	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	GM-13D	09/21/2011 09:15		Field Sample
SCA-GW06	Ground Water/ SAT	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	G-22	09/21/2011 11:55		Field Sample
SCA-GW08	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	GM-14	09/20/2011 10:22		Field Sample
SCA-GW10	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	GM-18	09/20/2011 09:00		Field Sample
WST-RIN01	QA/QC/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	A (None) (1)	Site	09/15/2011 18:25		Rinsate Blank

Sample(s) to be used for Lab QC: SCA-GW06

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	David Cohen	9/22/11	FedEx	9/22/11	1300						

Revised COC 9/28/11 DC

USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 865869642224

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 2

No: 2-092211-115537-0048
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
SCA-GW05	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	GM-13D	09/21/2011 09:15		Field Sample
SCA-GW06	Ground Water/ SAT	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	GM-22	09/21/2011 11:55		Field Sample
SCA-GW08	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	GM-14	09/20/2011 10:22		Field Sample
SCA-GW10	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	GM-18	09/20/2011 09:00		Field Sample
WST-RIN01	QA/QC/ SAT/RST	Grab	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	A (HNO3 pH<2) (1)	Site	09/15/2011 18:25		Rinsate Blank

Sample(s) to be used for Lab QC: SCA-GW06

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/22/11	FedEx	9/22/11	1300						

USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 865869642224

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 3

No: 2-092211-120450-0049
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
SCA-GW02	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	G-9	09/19/2011 11:25		Field Sample
SCA-GW07	Ground Water/ SAT	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (None) (1)	VW25	09/19/2011 15:51		Field Sample

Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	[signature]	9/22/11	FedEx	9/22/11	1300						

Revised COC 9/28/11 DC

USEPA NAREL COC (REGION COPY)
DateShipped: 9/22/2011
CarrierName: FedEx
AirbillNo: 865869642224

CHAIN OF CUSTODY RECORD
St. Croix Alumina (Renaissance Park)/NJ
Task # 5068
Cooler #: 3

No: 2-092211-120450-0049
Lab: USEPA/NAREL
Lab Contact: Cindy White
Lab Phone: 334-270-7052

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles DC	Station Location	Collected	Organic Sample #	Sample Type
SCA-GW02	Ground Water/ SAT/RST	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	G-9	09/19/2011 11:25		Field Sample
SCA-GW07	Ground Water/ SAT	Bladder Pump	Ra-226 + Ra-228 + Total Uranium + Isotopic Thorium	B (HNO3 pH<2) (1)	VW25	09/19/2011 15:51		Field Sample

Special Instructions:

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
—	Paul Wh	9/22/11	FedEx	9/22/11	1300						

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DELIVERED 9/23/11

Sender's Copy

1 From *Please print and press hard.*

Date 09/22/11 Sender's FedEx Account Number

Sender's Name Dan Carlson Phone 973-271-7633

Company Weston Solutions, Inc.

Address Tamarind Reef Hotel

Address 5001 Tamarind Reef

City Christiansted State/Province VI

Country USA ZIP/Postal Code 00820

2 To Recipient's Name Cindy White Phone 334-270-7052

Company USEPA / NAREL

Address 540 S. Morris Avenue Dept./Floor

Address

City Montgomery State/Province AL

Country USA ZIP/Postal Code 36115

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC) 3 Total Weight 15 ☒ lbs. ☐ kg DIM L / W / H ☐ in. ☐ cm

Commodity Description DETAIL REQUIRED	Harmonized Code	Country of Manufacture	Value for Customs REQUIRED
Environmental samples (water) FOR LAB TESTING ONLY			$200
COMPLETE IN ENGLISH.			

Has EEI/SED been filed in AES? For U.S. Export Only: Check One

☐ No EEI/SED required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.

☐ No EEI/SED required, enter exemption number:

☐ Yes — Enter AES proof of filing citation:

Total Declared Value for Carriage

If other than NLR, enter License Exception:

Total Value for Customs (Specify Currency) $200 USD

4 Express Package Service *Packages up to 150 lbs. / 68 kg*

For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

☒ FedEx Intl. Priority ☐ FedEx Intl. First Available to select locations. Higher rates apply.

☐ ___ ☐ FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.

5 Packaging *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

☐ FedEx Envelope ☐ FedEx Pak ☐ FedEx Box ☐ FedEx Tube

☒ Other Cooler ☐ FedEx 10kg Box* ☐ FedEx 25kg Box*

6 Special Handling

☐ HOLD at FedEx Location ☐ SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7a Payment *Bill transportation charges to:*

Enter FedEx Acct. No. or Credit Card No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party ☐ Credit Card ☐ Cash/Check/Cheque

FedEx Acct. No. 108 067 691 FedEx Use Only

Credit Card No.

Credit Card Exp. Date

7b Payment *Bill duties and taxes to:* All shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

Enter FedEx Acct. No. below.

☐ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☒ Third Party

FedEx Acct. No. 108 067 691

8 Your Internal Billing Reference First 24 characters will appear on invoice.

20401.135.024.5068

9 Required Signature

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Sender's Signature: Dan Carlson

This is not authorization to deliver this shipment without a recipient signature.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory
2890 Woodbridge Avenue
Edison , New Jersey 08837
732-906-6886 Phone
732-906-6165 Fax

November 29, 2011

Gerry Gilliland
Weston Solutions Inc.
1090 King Georges Post Road, Suite 201
Edison, NJ 08837

RE: St. Croix Alumina - 1109036

Enclosed are the results of analyses for samples received by the laboratory between 09/14/2011 and 09/23/2011. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1109036 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

John R. Bourbon
Chief, DESA/LB

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Project Narrative:

The National Environmental Laboratory Accreditation Conference (NELAC) is a voluntary environmental laboratory accreditation association of State and Federal agencies. NELAC established and promoted a national accreditation program that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAC accredited. The Laboratory tests that are accredited have met all the requirements established under the NELAC Standards.

Condition Comments

The soil results are reported on a "dry-weight" basis.

Grain Size results are rounded to two significant figures, so the total percentage may not equal to exactly 100 percent. A Grain Size distribution graph was prepared for each sample and is available upon request.

The samples are predominantly sand and gravel fractions so the silt, clay and colloids fractions were reported together. The silt, clay and colloids fractions were small enough that error would be introduced by reporting them separately. As results the silt, clay and colloids fractions are reported as total for the following samples: 1109036-08, 1109036-10, 1109045-01, 1109045-04, 1109052-02, 1109052-05, 1109055-29, 1109055-33 & 1109055-35.

Due to organic material and the inherent variability associated with hydrometer analysis, the final results may have been adjusted to a final cumulative percent passing of 100 percent. These adjustments are generally to one fraction and are less than 3 percentage points. If a fraction is adjusted by more than 3 percentage points, it means that there was interference from the matrix and these data will be qualified with a "J" on the data report. The following samples were impacted with this scenario are 1109036-010, 1109036-033 and 1109036-035.

On September 19, 2011, the Laboratory received a total of 8 coolers of samples. Out of eight (8) coolers, 3 coolers of samples were non-conformance with sample temperature upon receipt. Thus, the following test results with the corresponding samples were qualified with "J":

Grain size samples that were received outside the temperature requirement, the data were not qualified with "J".

The TAL Metals, Mercury and Total Organic Carbon (TOC) results of the following samples: 1109055-33 through 1109055-38.

Data Qualifier(s):

U- The analyte was not detected at or above the Reporting Limit.
J- The identification of the analyte is acceptable; the reported value is an estimate.
K- The identification of the analyte is acceptable; the reported value may be biased high.
L- The identification of the analyte is acceptable; the reported value may be biased low.
NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification. The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

Project:St. Croix Alumina - 1109036

Project Number: 1109036

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-S01	1109036-01	Solid	09/12/2011 10:00	09/14/2011 11:45
BG-S02	1109036-02	Solid	09/12/2011 10:35	09/14/2011 11:45
BG-S03	1109036-03	Solid	09/12/2011 13:00	09/14/2011 11:45
BG-S04	1109036-04	Solid	09/12/2011 13:47	09/14/2011 11:45
BG-S05	1109036-05	Solid	09/12/2011 13:30	09/14/2011 11:45
BG-S06	1109036-06	Solid	09/12/2011 13:35	09/14/2011 11:45
BG-SS02	1109036-07	Solid	09/12/2011 10:50	09/14/2011 11:45
MAN-SD09	1109036-08	Solid	09/12/2011 10:47	09/14/2011 11:45
MAN-SD10	1109036-09	Solid	09/12/2011 11:25	09/14/2011 11:45
MAN-SD11	1109036-10	Solid	09/12/2011 11:47	09/14/2011 11:45
MAN-SW09	1109036-11	Aqueous	09/12/2011 10:45	09/14/2011 11:45
MAN-SW10	1109036-12	Aqueous	09/12/2011 11:20	09/14/2011 11:45
MAN-SW11	1109036-13	Aqueous	09/12/2011 11:45	09/14/2011 11:45
ACC-SD01	1109045-01	Solid	09/13/2011 09:57	09/15/2011 14:30
ACC-SD04	1109045-02	Solid	09/13/2011 10:20	09/15/2011 14:30
ACC-SD05	1109045-03	Solid	09/13/2011 11:10	09/15/2011 14:30
ACC-SD06	1109045-04	Solid	09/13/2011 11:40	09/15/2011 14:30
ACC-SD07	1109045-05	Solid	09/13/2011 11:50	09/15/2011 14:30
ACC-SD52	1109045-06	Solid	09/13/2011 12:15	09/15/2011 14:30
ACC-SW01	1109045-07	Aqueous	09/13/2011 09:52	09/15/2011 14:30
ACC-SW04	1109045-08	Aqueous	09/13/2011 10:12	09/15/2011 14:30
ACC-SW05	1109045-09	Aqueous	09/13/2011 11:07	09/15/2011 14:30
ACC-SW06	1109045-10	Aqueous	09/13/2011 11:35	09/15/2011 14:30
ACC-SW07	1109045-11	Aqueous	09/13/2011 11:47	09/15/2011 14:30
ACC-SW52	1109045-12	Aqueous	09/13/2011 12:12	09/15/2011 14:30
MAN-SW14	1109045-13	Aqueous	09/12/2011 17:15	09/15/2011 14:30
MAN-SW15	1109045-14	Aqueous	09/12/2011 17:00	09/15/2011 14:30
MAN-SW16	1109045-15	Aqueous	09/12/2011 14:30	09/15/2011 14:30
BG-SD53	1109051-01	Solid	09/13/2011 14:25	09/16/2011 14:00

Project:St. Croix Alumina - 1109036

Project Number: 1109036

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG-SD54	1109051-02	Solid	09/13/2011 14:15	09/16/2011 14:00
BG-SD55	1109051-03	Solid	09/13/2011 14:53	09/16/2011 14:00
BG-SD56	1109051-04	Solid	09/13/2011 15:18	09/16/2011 14:00
BG-SW53	1109051-05	Aqueous	09/13/2011 14:22	09/16/2011 14:00
BG-SW54	1109051-06	Aqueous	09/13/2011 14:12	09/16/2011 14:00
BG-SW55	1109051-07	Aqueous	09/13/2011 14:47	09/16/2011 14:00
BG-SW56	1109051-08	Aqueous	09/13/2011 15:15	09/16/2011 14:00
MAN-SD08	1109052-01	Solid	09/12/2011 16:20	09/16/2011 14:40
MAN-SD12	1109052-02	Solid	09/12/2011 14:15	09/16/2011 14:40
MAN-SD13	1109052-03	Solid	09/12/2011 15:33	09/16/2011 14:40
MAN-SD14	1109052-04	Solid	09/12/2011 17:20	09/16/2011 14:40
MAN-SD15	1109052-05	Solid	09/12/2011 17:05	09/16/2011 14:40
MAN-SD16	1109052-06	Solid	09/12/2011 14:35	09/16/2011 14:40
MAN-SW08	1109052-07	Aqueous	09/12/2011 16:15	09/16/2011 14:40
MAN-SW12	1109052-08	Aqueous	09/12/2011 14:12	09/16/2011 14:40
MAN-SW13	1109052-09	Aqueous	09/12/2011 15:30	09/16/2011 14:40
SD-RIN06	1109052-10	Aqueous	09/12/2011 14:10	09/16/2011 14:40
UCP-SW36	1109054-01	Aqueous	09/15/2011 16:02	09/19/2011 12:00
UCP-SW38	1109054-02	Aqueous	09/15/2011 19:34	09/19/2011 12:00
WST- RIN01	1109054-03	Aqueous	09/15/2011 18:25	09/19/2011 12:00
WST- RIN02	1109054-04	Aqueous	09/15/2011 15:21	09/19/2011 12:00
ADP-SD48	1109055-01	Solid	09/14/2011 12:20	09/19/2011 13:00
ADP-SD49	1109055-02	Solid	09/14/2011 12:07	09/19/2011 13:00
ADP-SD50	1109055-03	Solid	09/14/2011 12:51	09/19/2011 13:00
ADP-SD51	1109055-04	Solid	09/14/2011 13:20	09/19/2011 13:00
LCP-SD26	1109055-05	Solid	09/14/2011 10:21	09/19/2011 13:00
LCP-SD27	1109055-06	Solid	09/14/2011 10:00	09/19/2011 13:00
LCP-SD28	1109055-07	Solid	09/14/2011 10:37	09/19/2011 13:00
LCP-SD29	1109055-08	Solid	09/14/2011 10:54	09/19/2011 13:00

Project:St. Croix Alumina - 1109036

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SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
LCP-SD30	1109055-09	Solid	09/14/2011 11:36	09/19/2011 13:00
MAN-SW19	1109055-10	Aqueous	09/15/2011 10:12	09/19/2011 13:00
RMS-SW42	1109055-11	Aqueous	09/15/2011 09:01	09/19/2011 13:00
RMS-SW43	1109055-12	Aqueous	09/15/2011 09:02	09/19/2011 13:00
RMS-SW46	1109055-13	Aqueous	09/15/2011 08:25	09/19/2011 13:00
MAN-SD19	1109055-14	Solid	09/15/2011 10:16	09/19/2011 13:00
RMS-SD42	1109055-15	Solid	09/15/2011 09:07	09/19/2011 13:00
RMS-SD43	1109055-16	Solid	09/15/2011 09:08	09/19/2011 13:00
RMS-SD45	1109055-17	Solid	09/14/2011 18:20	09/19/2011 13:00
RMS-SD46	1109055-18	Solid	09/15/2011 08:28	09/19/2011 13:00
RMS-SD47	1109055-19	Solid	09/15/2011 08:55	09/19/2011 13:00
UCP-SD34	1109055-20	Solid	09/14/2011 16:25	09/19/2011 13:00
UCP-SD35	1109055-21	Solid	09/14/2011 17:05	09/19/2011 13:00
UCP-SD37	1109055-22	Solid	09/14/2011 17:43	09/19/2011 13:00
UCP-SD39	1109055-23	Solid	09/14/2011 17:25	09/19/2011 13:00
UCP-SD40	1109055-24	Solid	09/14/2011 17:45	09/19/2011 13:00
UCP-SD41	1109055-25	Solid	09/14/2011 18:10	09/19/2011 13:00
WES-SD22	1109055-26	Solid	09/14/2011 16:37	09/19/2011 13:00
WES-SD23	1109055-27	Solid	09/14/2011 16:38	09/19/2011 13:00
WES-SD24	1109055-28	Solid	09/14/2011 17:27	09/19/2011 13:00
BG-SD53	1109055-29	Solid	09/13/2011 14:25	09/19/2011 13:00
BG-SD54	1109055-30	Solid	09/13/2011 14:15	09/19/2011 13:00
BG-SD55	1109055-31	Solid	09/13/2011 14:53	09/19/2011 13:00
BG-SD56	1109055-32	Solid	09/13/2011 15:18	09/19/2011 13:00
LCP-SD31	1109055-33	Solid	09/14/2011 10:50	09/19/2011 13:00
LCP-SD32	1109055-34	Solid	09/14/2011 11:20	09/19/2011 13:00
LCP-SD33	1109055-35	Solid	09/14/2011 12:05	09/19/2011 13:00
MAN-SD17	1109055-36	Solid	09/14/2011 10:25	09/19/2011 13:00
MAN-SD20	1109055-37	Solid	09/14/2011 11:40	09/19/2011 13:00

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SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
MAN-SD21	1109055-38	Solid	09/14/2011 12:35	09/19/2011 13:00
UCP-SD36	1109055-39	Solid	09/15/2011 16:05	09/19/2011 13:00
UCP-SD38	1109055-40	Solid	09/16/2011 17:36	09/19/2011 13:00
WES-SD25	1109055-41	Solid	09/16/2011 16:57	09/19/2011 13:00
ADP-SW48	1109055-42	Aqueous	09/14/2011 12:18	09/19/2011 13:00
ADP-SW50	1109055-43	Aqueous	09/14/2011 12:48	09/19/2011 13:00
ADP-SW51	1109055-44	Aqueous	09/14/2011 13:18	09/19/2011 13:00
LCP-SW26	1109055-45	Aqueous	09/14/2011 10:19	09/19/2011 13:00
LCP-SW27	1109055-46	Aqueous	09/14/2011 09:57	09/19/2011 13:00
LCP-SW28	1109055-47	Aqueous	09/14/2011 10:55	09/19/2011 13:00
LCP-SW29	1109055-48	Aqueous	09/14/2011 10:51	09/19/2011 13:00
LCP-SW30	1109055-49	Aqueous	09/14/2011 11:33	09/19/2011 13:00
LCP-SW31	1109055-50	Aqueous	09/14/2011 10:44	09/19/2011 13:00
LCP-SW32	1109055-51	Aqueous	09/14/2011 11:15	09/19/2011 13:00
LCP-SW33	1109055-52	Aqueous	09/14/2011 12:00	09/19/2011 13:00
MAN-SW17	1109055-53	Aqueous	09/14/2011 10:22	09/19/2011 13:00
MAN-SW20	1109055-54	Aqueous	09/14/2011 11:30	09/19/2011 13:00
MAN-SW21	1109055-55	Aqueous	09/14/2011 12:30	09/19/2011 13:00
UCP-SW39	1109055-56	Aqueous	09/14/2011 17:20	09/19/2011 13:00
UCP-SW41	1109055-57	Aqueous	09/14/2011 18:05	09/19/2011 13:00
ADP-SW49	1109055-58	Aqueous	09/14/2011 12:05	09/19/2011 13:00
RMS-SW45	1109055-59	Aqueous	09/14/2011 18:17	09/19/2011 13:00
UCP-SW34	1109055-60	Aqueous	09/14/2011 16:20	09/19/2011 13:00
UCP-SW35	1109055-61	Aqueous	09/14/2011 17:00	09/19/2011 13:00
UCP-SW37	1109055-62	Aqueous	09/14/2011 17:38	09/19/2011 13:00
UCP-SW40	1109055-63	Aqueous	09/14/2011 17:40	09/19/2011 13:00
WES-SW22	1109055-64	Aqueous	09/14/2011 16:32	09/19/2011 13:00
WES-SW23	1109055-65	Aqueous	09/14/2011 16:33	09/19/2011 13:00
WES-SW24	1109055-66	Aqueous	09/14/2011 17:22	09/19/2011 13:00

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SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
RMA-WST02B	1109056-01	Solid	09/15/2011 11:35	09/20/2011 11:30
RMA-WST03B	1109056-02	Solid	09/15/2011 14:30	09/20/2011 11:30
RMA-WST04B	1109056-03	Solid	09/15/2011 14:51	09/20/2011 11:30
RMA-WST05A	1109056-04	Solid	09/15/2011 15:30	09/20/2011 11:30
RMA-WST05B	1109056-05	Solid	09/15/2011 15:22	09/20/2011 11:30
RMA-WST06B	1109056-06	Solid	09/15/2011 15:45	09/20/2011 11:30
RMA-WST12B	1109056-07	Solid	09/15/2011 15:00	09/20/2011 11:30
RMA-WST18B	1109056-08	Solid	09/15/2011 17:00	09/20/2011 11:30
RMA-WST01B	1109056-09	Solid	09/16/2011 10:40	09/20/2011 11:30
RMA-WST01C	1109056-10	Solid	09/16/2011 10:45	09/20/2011 11:30
RMA-WST07B	1109056-11	Solid	09/16/2011 09:50	09/20/2011 11:30
RMA-WST08A	1109056-12	Solid	09/16/2011 09:35	09/20/2011 11:30
RMA-WST08B	1109056-13	Solid	09/16/2011 09:35	09/20/2011 11:30
RMA-WST10A	1109056-14	Solid	09/16/2011 11:00	09/20/2011 11:30
RMA-WST10B	1109056-15	Solid	09/16/2011 11:05	09/20/2011 11:30
RMA-WST11B	1109056-16	Solid	09/16/2011 11:20	09/20/2011 11:30
RMA-WST19B	1109056-17	Solid	09/16/2011 09:00	09/20/2011 11:30
RMA-WST01A	1109061-01	Solid	09/16/2011 10:40	09/21/2011 14:45
RMA-WST02A	1109061-02	Solid	09/15/2011 08:10	09/21/2011 14:45
RMA-WST03A	1109061-03	Solid	09/15/2011 10:30	09/21/2011 14:45
RMA-WST04A	1109061-04	Solid	09/15/2011 10:55	09/21/2011 14:45
RMA-WST06A	1109061-05	Solid	09/16/2011 15:45	09/21/2011 14:45
RMA-WST07A	1109061-06	Solid	09/16/2011 09:50	09/21/2011 14:45
RMA-WST09A	1109061-07	Solid	09/16/2011 09:15	09/21/2011 14:45
RMA-WST09B	1109061-08	Solid	09/16/2011 09:15	09/21/2011 14:45
RMA-WST11A	1109061-09	Solid	09/16/2011 11:20	09/21/2011 14:45
RMA-WST11C	1109061-10	Solid	09/16/2011 11:25	09/21/2011 14:45
RMA-WST12A	1109061-11	Solid	09/15/2011 11:20	09/21/2011 14:45
RMA-WST13A	1109061-12	Solid	09/15/2011 13:16	09/21/2011 14:45

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SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
RMA-WST13B	1109061-13	Solid	09/15/2011 16:15	09/21/2011 14:45
RMA-WST18A	1109061-14	Solid	09/15/2011 17:00	09/21/2011 14:45
RMA-WST19A	1109061-15	Solid	09/16/2011 09:00	09/21/2011 14:45
RMA-WST20A	1109061-16	Solid	09/15/2011 16:35	09/21/2011 14:45
RMA-WST20B	1109061-17	Solid	09/15/2011 16:40	09/21/2011 14:45
UCP-SD36	1109061-18	Solid	09/15/2011 16:05	09/21/2011 14:45
UCP-SD38	1109061-19	Solid	09/16/2011 17:36	09/21/2011 14:45
WES-SD25	1109061-20	Solid	09/16/2011 16:57	09/21/2011 14:45
ADP-WST41A	1109065-01	Solid	09/19/2011 10:15	09/22/2011 15:00
ADP-WST41B	1109065-02	Solid	09/19/2011 10:15	09/22/2011 15:00
ADP-WST41C	1109065-03	Solid	09/19/2011 10:20	09/22/2011 15:00
ADP-WST42A	1109065-04	Solid	09/19/2011 10:35	09/22/2011 15:00
RMA-WST14A	1109065-05	Solid	09/16/2011 14:50	09/22/2011 15:00
RMA-WST14B	1109065-06	Solid	09/16/2011 14:50	09/22/2011 15:00
RMA-WST15A	1109065-07	Solid	09/16/2011 14:35	09/22/2011 15:00
RMA-WST16A	1109065-08	Solid	09/16/2011 14:15	09/22/2011 15:00
RMA-WST16B	1109065-09	Solid	09/16/2011 14:15	09/22/2011 15:00
RMA-WST17A	1109065-10	Solid	09/16/2011 14:00	09/22/2011 15:00
RMA-WST17B	1109065-11	Solid	09/16/2011 14:00	09/22/2011 15:00
RMB-WST24A	1109065-12	Solid	09/19/2011 17:40	09/22/2011 15:00
RMB-WST28A	1109065-13	Solid	09/19/2011 12:30	09/22/2011 15:00
RMB-WST29A	1109065-14	Solid	09/19/2011 11:35	09/22/2011 15:00
RMB-WST30A	1109065-15	Solid	09/19/2011 12:10	09/22/2011 15:00
RMB-WST30B	1109065-16	Solid	09/19/2011 12:10	09/22/2011 15:00
RMB-WST32A	1109065-17	Solid	09/19/2011 12:45	09/22/2011 15:00
RMB-WST34A	1109065-18	Solid	09/19/2011 09:35	09/22/2011 15:00
RMB-WST36A	1109065-19	Solid	09/19/2011 09:20	09/22/2011 15:00
RMB-WST38A	1109065-20	Solid	09/19/2011 08:35	09/22/2011 15:00
RMB-WST39A	1109065-21	Solid	09/19/2011 08:00	09/22/2011 15:00

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SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
RMB-WST39B	1109065-22	Solid	09/19/2011 08:00	09/22/2011 15:00
RMB-WST40A	1109065-23	Solid	09/19/2011 12:00	09/22/2011 15:00
RMB-WST22A	1109071-01	Solid	09/19/2011 15:20	09/23/2011 15:00
RMB-WST22B	1109071-02	Solid	09/19/2011 15:22	09/23/2011 15:00
RMB-WST23A	1109071-03	Solid	09/19/2011 15:55	09/23/2011 15:00
RMB-WST23B	1109071-04	Solid	09/19/2011 17:00	09/23/2011 15:00
RMB-WST23C	1109071-05	Solid	09/19/2011 17:10	09/23/2011 15:00
RMB-WST28B	1109071-06	Solid	09/19/2011 12:30	09/23/2011 15:00
RMB-WST29B	1109071-07	Solid	09/19/2011 11:35	09/23/2011 15:00
RMB-WST34B	1109071-08	Solid	09/19/2011 09:35	09/23/2011 15:00
RMB-WST37A	1109071-09	Solid	09/19/2011 08:10	09/23/2011 15:00
RMB-WST37B	1109071-10	Solid	09/19/2011 08:10	09/23/2011 15:00
MW-RIN03	1109072-01	Aqueous	09/19/2011 19:00	09/23/2011 16:10
SCA-GW02	1109072-02	Aqueous	09/19/2011 11:25	09/23/2011 16:10
SCA-GW02F	1109072-03	Aqueous	09/19/2011 11:25	09/23/2011 16:10
SCA-GW03	1109072-04	Aqueous	09/19/2011 17:37	09/23/2011 16:10
SCA-GW03F	1109072-05	Aqueous	09/19/2011 17:37	09/23/2011 16:10
SCA-GW04	1109072-06	Aqueous	09/19/2011 14:06	09/23/2011 16:10
SCA-GW04F	1109072-07	Aqueous	09/19/2011 14:06	09/23/2011 16:10
SCA-GW07	1109072-08	Aqueous	09/19/2011 15:51	09/23/2011 16:10
SCA-GW07F	1109072-09	Aqueous	09/19/2011 15:51	09/23/2011 16:10
SCA-GW08	1109072-10	Aqueous	09/20/2011 10:22	09/23/2011 16:10
SCA-GW08F	1109072-11	Aqueous	09/20/2011 10:22	09/23/2011 16:10
WST-RIN05	1109072-12	Aqueous	09/19/2011 07:30	09/23/2011 16:10
BG-S16A	1109072-13	Solid	09/21/2011 08:10	09/23/2011 16:10
FBS-WST44A	1109072-14	Solid	09/20/2011 09:25	09/23/2011 16:10
FBS-WST45A	1109072-15	Solid	09/20/2011 09:35	09/23/2011 16:10
FBS-WST46A	1109072-16	Solid	09/20/2011 09:50	09/23/2011 16:10
RMA-SW57	1109072-17	Aqueous	09/20/2011 13:15	09/23/2011 16:10

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SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
SCA-GW01	1109072-18	Aqueous	09/20/2011 16:41	09/23/2011 16:10
SCA-GW01F	1109072-19	Aqueous	09/20/2011 16:41	09/23/2011 16:10
SCA-GW05	1109072-20	Aqueous	09/21/2011 09:15	09/23/2011 16:10
SCA-GW05F	1109072-21	Aqueous	09/21/2011 09:15	09/23/2011 16:10
SCA-GW09	1109072-22	Aqueous	09/20/2011 12:30	09/23/2011 16:10
SCA-GW09F	1109072-23	Aqueous	09/20/2011 12:30	09/23/2011 16:10
SCA-GW10	1109072-24	Aqueous	09/20/2011 09:00	09/23/2011 16:10
SCA-GW10F	1109072-25	Aqueous	09/20/2011 09:00	09/23/2011 16:10
SCA-GW11	1109072-26	Aqueous	09/20/2011 09:05	09/23/2011 16:10
SCA-GW11F	1109072-27	Aqueous	09/20/2011 09:05	09/23/2011 16:10
FBS-WST43A	1109072-28	Solid	09/21/2011 10:00	09/23/2011 16:10
RMA-SD57	1109072-29	Solid	09/21/2011 10:25	09/23/2011 16:10
RMA-SD58	1109072-30	Solid	09/21/2011 10:38	09/23/2011 16:10
RMA-SD59	1109072-31	Solid	09/21/2011 10:55	09/23/2011 16:10
RMA-SD60	1109072-32	Solid	09/21/2011 11:05	09/23/2011 16:10
RMA-SD61	1109072-33	Solid	09/21/2011 11:15	09/23/2011 16:10
RMA-SD62	1109072-34	Solid	09/21/2011 11:20	09/23/2011 16:10
RMA-SD63	1109072-35	Solid	09/21/2011 11:30	09/23/2011 16:10
SCA-GW06	1109073-01	Aqueous	09/21/2011 11:55	09/23/2011 17:30
SCA-GW06F	1109073-02	Aqueous	09/21/2011 11:55	09/23/2011 17:30

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 2 Laboratory

Project:St. Croix Alumina - 1109036

Project Number: 1109036

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Chloride	EPA 300.0/ SOP C-94	NELAP	Aqueous
E-Grain Size Hydrometer	ASTM D422-63 / BIO 8.3		Solid
Mercury	EPA 245.1 / SOP C-110		Aqueous
Mercury	EPA 245.1 / SOP C-110	NELAP	Solid
E-Metals ICP TAL List	EPA 200.7 / SOP C-109		Aqueous
E-Metals ICP TAL List	EPA 200.7 / SOP C-109	NELAP	Solid
Organic Carbon, Total	EPA 415.1mod / SOP C-88	NELAP	Solid

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-S01			**Sample ID: 1109036-01**	
Mercury CVAA				
Mercury	0.128	K	0.046	mg/kg dry
Metals ICP				
Silver	---	U	0.42	mg/kg dry
Arsenic	3.7		0.68	mg/kg dry
Barium	61		8.5	mg/kg dry
Beryllium	---	U	0.25	mg/kg dry
Calcium	340000		420	mg/kg dry
Cadmium	---	U	0.25	mg/kg dry
Cobalt	1.7		1.7	mg/kg dry
Chromium	8.2		0.42	mg/kg dry
Copper	13	K	0.85	mg/kg dry
Potassium	610		42	mg/kg dry
Magnesium	4000		42	mg/kg dry
Manganese	68		0.42	mg/kg dry
Sodium	290	J	85	mg/kg dry
Nickel	5.3		1.7	mg/kg dry
Lead	49		0.68	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Vanadium	10		1.7	mg/kg dry
Zinc	65	J	1.7	mg/kg dry
Aluminum	3100		8.5	mg/kg dry
Iron	3400		4.2	mg/kg dry
Field ID: BG-S02			**Sample ID: 1109036-02**	
Mercury CVAA				
Mercury	0.083		0.046	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-S02			**Sample ID: 1109036-02**	
Metals ICP				
Silver	---	U	0.47	mg/kg dry
Aluminum	25000		9.3	mg/kg dry
Arsenic	5.0		0.74	mg/kg dry
Barium	73		9.3	mg/kg dry
Beryllium	---	U	0.28	mg/kg dry
Calcium	150000		470	mg/kg dry
Cadmium	---	U	0.28	mg/kg dry
Cobalt	10		1.9	mg/kg dry
Chromium	35		0.47	mg/kg dry
Copper	38		0.93	mg/kg dry
Iron	21000		4.7	mg/kg dry
Potassium	5600		47	mg/kg dry
Magnesium	5100		47	mg/kg dry
Manganese	690		0.47	mg/kg dry
Sodium	170		93	mg/kg dry
Nickel	19		1.9	mg/kg dry
Lead	13		0.74	mg/kg dry
Antimony	---	U	1.9	mg/kg dry
Selenium	---	U	1.9	mg/kg dry
Thallium	---	U	1.9	mg/kg dry
Vanadium	40		1.9	mg/kg dry
Zinc	70		1.9	mg/kg dry
Field ID: BG-S03			**Sample ID: 1109036-03**	
Mercury CVAA				
Mercury	0.072		0.054	mg/kg dry
Metals ICP				
Silver	---	U	0.46	mg/kg dry
Aluminum	30000		9.3	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-S03			**Sample ID: 1109036-03**	
Metals ICP				
Arsenic	4.8		0.74	mg/kg dry
Barium	89		9.3	mg/kg dry
Beryllium	---	U	0.28	mg/kg dry
Calcium	83000		46	mg/kg dry
Cadmium	---	U	0.28	mg/kg dry
Cobalt	12		1.9	mg/kg dry
Chromium	38		0.46	mg/kg dry
Copper	45		0.93	mg/kg dry
Iron	23000		4.6	mg/kg dry
Potassium	7800		46	mg/kg dry
Magnesium	5100		46	mg/kg dry
Manganese	730		0.46	mg/kg dry
Sodium	160		93	mg/kg dry
Nickel	25		1.9	mg/kg dry
Lead	19		0.74	mg/kg dry
Antimony	---	U	1.9	mg/kg dry
Selenium	---	U	1.9	mg/kg dry
Thallium	---	U	1.9	mg/kg dry
Vanadium	53		1.9	mg/kg dry
Zinc	94		1.9	mg/kg dry
Field ID: BG-S04			**Sample ID: 1109036-04**	
Mercury CVAA				
Mercury	---	U	0.048	mg/kg dry
Metals ICP				
Silver	---	U	0.52	mg/kg dry
Aluminum	30000		10	mg/kg dry
Arsenic	4.4		0.83	mg/kg dry
Barium	82		10	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-S04			**Sample ID: 1109036-04**	
Metals ICP				
Beryllium	---	U	0.31	mg/kg dry
Calcium	88000		52	mg/kg dry
Cadmium	---	U	0.31	mg/kg dry
Cobalt	11		2.1	mg/kg dry
Chromium	48		0.52	mg/kg dry
Copper	31		1.0	mg/kg dry
Iron	27000		5.2	mg/kg dry
Potassium	6700		52	mg/kg dry
Magnesium	5500		52	mg/kg dry
Manganese	670		0.52	mg/kg dry
Sodium	130		100	mg/kg dry
Nickel	17		2.1	mg/kg dry
Lead	13		0.83	mg/kg dry
Antimony	---	U	2.1	mg/kg dry
Selenium	---	U	2.1	mg/kg dry
Thallium	---	U	2.1	mg/kg dry
Vanadium	64		2.1	mg/kg dry
Zinc	57		2.1	mg/kg dry
Field ID: BG-S05			**Sample ID: 1109036-05**	
Mercury CVAA				
Mercury	---	U	0.045	mg/kg dry
Metals ICP				
Silver	---	U	0.44	mg/kg dry
Aluminum	19000		8.7	mg/kg dry
Arsenic	2.6		0.70	mg/kg dry
Barium	75		8.7	mg/kg dry
Beryllium	0.34		0.26	mg/kg dry
Calcium	210000		440	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-S05			**Sample ID: 1109036-05**	
Metals ICP				
Cadmium	---	U	0.26	mg/kg dry
Cobalt	8.5		1.7	mg/kg dry
Chromium	22		0.44	mg/kg dry
Copper	33		0.87	mg/kg dry
Iron	14000		4.4	mg/kg dry
Potassium	5800		44	mg/kg dry
Magnesium	8000		44	mg/kg dry
Manganese	500		0.44	mg/kg dry
Sodium	200		87	mg/kg dry
Nickel	19		1.7	mg/kg dry
Lead	15		0.70	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Vanadium	34		1.7	mg/kg dry
Zinc	100		1.7	mg/kg dry
Field ID: BG-S06			**Sample ID: 1109036-06**	
Mercury CVAA				
Mercury	---	U	0.044	mg/kg dry
Metals ICP				
Silver	---	U	0.46	mg/kg dry
Aluminum	17000		9.2	mg/kg dry
Arsenic	2.7		0.74	mg/kg dry
Barium	73		9.2	mg/kg dry
Beryllium	0.35		0.28	mg/kg dry
Calcium	210000		460	mg/kg dry
Cadmium	---	U	0.28	mg/kg dry
Cobalt	8.1		1.8	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-S06			**Sample ID: 1109036-06**	
Metals ICP				
Chromium	20		0.46	mg/kg dry
Copper	32		0.92	mg/kg dry
Iron	13000		4.6	mg/kg dry
Potassium	5400		46	mg/kg dry
Magnesium	7700		46	mg/kg dry
Manganese	470		0.46	mg/kg dry
Sodium	190		92	mg/kg dry
Nickel	18		1.8	mg/kg dry
Lead	14		0.74	mg/kg dry
Antimony	---	U	1.8	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Vanadium	32		1.8	mg/kg dry
Zinc	97		1.8	mg/kg dry
Field ID: BG-SS02			**Sample ID: 1109036-07**	
Mercury CVAA				
Mercury	0.075		0.043	mg/kg dry
Metals ICP				
Silver	---	U	0.49	mg/kg dry
Aluminum	27000		9.7	mg/kg dry
Arsenic	4.9		0.78	mg/kg dry
Barium	79		9.7	mg/kg dry
Beryllium	---	U	0.29	mg/kg dry
Calcium	160000		490	mg/kg dry
Cadmium	---	U	0.29	mg/kg dry
Cobalt	11		1.9	mg/kg dry
Chromium	36		0.49	mg/kg dry
Copper	36		0.97	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-SS02			**Sample ID: 1109036-07**	
Metals ICP				
Iron	21000		4.9	mg/kg dry
Potassium	6100		49	mg/kg dry
Magnesium	5300		49	mg/kg dry
Manganese	720		0.49	mg/kg dry
Sodium	190		97	mg/kg dry
Nickel	18		1.9	mg/kg dry
Lead	9.3		0.78	mg/kg dry
Antimony	---	U	1.9	mg/kg dry
Selenium	---	U	1.9	mg/kg dry
Thallium	---	U	1.9	mg/kg dry
Vanadium	35		1.9	mg/kg dry
Zinc	39		1.9	mg/kg dry
Field ID: MAN-SD09			**Sample ID: 1109036-08**	
Miscellaneous				
% Gravel & Larger >2.0 mm	---	U	0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	24		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	1.1		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	5.7		0.10	% by Weight
% Medium Sand >.25 - .5 mm	47		0.10	% by Weight
% Fine Sand >.125 - .25 mm	20		0.10	% by Weight
%Silt + % Clay/Colloids (%Total Fines)	3.2		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.041	mg/kg dry
Metals ICP				
Silver	---	U	0.16	mg/kg dry
Arsenic	3.0		0.26	mg/kg dry
Barium	10		3.3	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD09			**Sample ID: 1109036-08**	
Metals ICP				
Beryllium	---	U	0.098	mg/kg dry
Calcium	280000		160	mg/kg dry
Cadmium	---	U	0.098	mg/kg dry
Cobalt	0.87		0.66	mg/kg dry
Chromium	7.0		0.16	mg/kg dry
Copper	4.7		0.33	mg/kg dry
Potassium	440		16	mg/kg dry
Magnesium	5700		16	mg/kg dry
Manganese	120		0.16	mg/kg dry
Sodium	5400		33	mg/kg dry
Nickel	1.2		0.66	mg/kg dry
Lead	0.93		0.26	mg/kg dry
Antimony	---	U	0.66	mg/kg dry
Selenium	---	U	0.66	mg/kg dry
Thallium	---	U	0.66	mg/kg dry
Vanadium	13		0.66	mg/kg dry
Zinc	3.5		0.66	mg/kg dry
Aluminum	1800		3.3	mg/kg dry
Iron	1800		1.6	mg/kg dry
Sanitary				
Organic Carbon, Total	66000		1000	mg/kg
Field ID: MAN-SD10			**Sample ID: 1109036-09**	
Miscellaneous				
% Gravel & Larger >2.0 mm	2.3		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	4.8		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	7.2		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	4.2		0.10	% by Weight
% Silt	38		0.10	% by Weight

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD10			**Sample ID: 1109036-09**	
Miscellaneous				
% Medium Sand >.25 - .5 mm	6.3		0.10	% by Weight
% Fine Sand >.125 - .25 mm	8.2		0.10	% by Weight
% Clay & Colloids	29		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.078	mg/kg dry
Metals ICP				
Silver	---	U	0.26	mg/kg dry
Aluminum	11000		5.1	mg/kg dry
Arsenic	4.1		0.41	mg/kg dry
Barium	45		5.1	mg/kg dry
Beryllium	0.18		0.15	mg/kg dry
Calcium	270000		260	mg/kg dry
Cadmium	---	U	0.15	mg/kg dry
Cobalt	4.7		1.0	mg/kg dry
Chromium	14		0.26	mg/kg dry
Copper	30		0.51	mg/kg dry
Iron	11000		2.6	mg/kg dry
Potassium	3600		26	mg/kg dry
Magnesium	9300		26	mg/kg dry
Manganese	260		0.26	mg/kg dry
Sodium	19000		51	mg/kg dry
Nickel	8.0		1.0	mg/kg dry
Lead	2.4		0.41	mg/kg dry
Antimony	---	U	1.0	mg/kg dry
Selenium	---	U	1.0	mg/kg dry
Thallium	---	U	1.0	mg/kg dry
Vanadium	60		1.0	mg/kg dry
Zinc	19		1.0	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD10			**Sample ID: 1109036-09**	
Sanitary				
Organic Carbon, Total	43000		1000	mg/kg
Field ID: MAN-SD11			**Sample ID: 1109036-10**	
Miscellaneous				
% Gravel & Larger >2.0 mm	92	J	0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	1.8	J	0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	0.20	J	0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	4.4	J	0.10	% by Weight
% Medium Sand >.25 - .5 mm	0.90	J	0.10	% by Weight
% Fine Sand >.125 - .25 mm	0.40	J	0.10	% by Weight
%Silt + % Clay/Colloids (%Total Fines)	0.10	J	0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.052	mg/kg dry
Metals ICP				
Silver	---	U	0.23	mg/kg dry
Arsenic	4.2		0.37	mg/kg dry
Barium	15		4.7	mg/kg dry
Beryllium	---	U	0.14	mg/kg dry
Calcium	270000		230	mg/kg dry
Cadmium	---	U	0.14	mg/kg dry
Cobalt	---	U	0.93	mg/kg dry
Chromium	8.9		0.23	mg/kg dry
Copper	4.6		0.47	mg/kg dry
Potassium	760		23	mg/kg dry
Magnesium	9800		23	mg/kg dry
Manganese	25		0.23	mg/kg dry
Sodium	11000		47	mg/kg dry
Nickel	2.6		0.93	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD11			**Sample ID: 1109036-10**	
Metals ICP				
Lead	1.4		0.37	mg/kg dry
Antimony	---	U	0.93	mg/kg dry
Selenium	---	U	0.93	mg/kg dry
Thallium	---	U	0.93	mg/kg dry
Vanadium	38		0.93	mg/kg dry
Zinc	4.5		0.93	mg/kg dry
Aluminum	2800		4.7	mg/kg dry
Iron	1700		2.3	mg/kg dry
Sanitary				
Organic Carbon, Total	99000		1000	mg/kg
Field ID: MAN-SW09			**Sample ID: 1109036-11**	
Sanitary				
Chloride	14000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U J	5.0	ug/L
Arsenic	8.3	K	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	8000000		25000	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	11		5.0	ug/L
Copper	---	U J	10	ug/L
Potassium	460000		500	ug/L
Magnesium	1300000		5000	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW09			**Sample ID: 1109036-11**	
Metals ICP				
Manganese	250		5.0	ug/L
Sodium	9600000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U J	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	1700	K	100	ug/L
Iron	1800	K	50	ug/L
Field ID: MAN-SW10			**Sample ID: 1109036-12**	
Sanitary				
Chloride	8100		250	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	14		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	540000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	5.6		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	270000		500	ug/L
Magnesium	710000		500	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW10			**Sample ID: 1109036-12**	
Metals ICP				
Manganese	630		5.0	ug/L
Sodium	540000		1000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	57		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	3600		100	ug/L
Iron	3600		50	ug/L
Field ID: MAN-SW11			**Sample ID: 1109036-13**	
Sanitary				
Chloride	16000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	41		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	390000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	540000		500	ug/L
Magnesium	1500000		5000	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW11			**Sample ID: 1109036-13**	
Metals ICP				
Manganese	71		5.0	ug/L
Sodium	11000000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	28		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	300		100	ug/L
Iron	80		50	ug/L
Field ID: ACC-SD01			**Sample ID: 1109045-01**	
Miscellaneous				
% Gravel & Larger >2.0 mm	51		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	15		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	0.40		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	16		0.10	% by Weight
% Medium Sand >.25 - .5 mm	12		0.10	% by Weight
% Fine Sand >.125 - .25 mm	3.6		0.10	% by Weight
%Silt + % Clay/Colloids (%Total Fines)	1.8		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.038	mg/kg dry
Metals ICP				
Silver	---	U	0.33	mg/kg dry
Arsenic	2.3		0.52	mg/kg dry
Barium	9.4		6.6	mg/kg dry
Beryllium	---	U	0.20	mg/kg dry
Calcium	330000		330	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SD01			**Sample ID: 1109045-01**	
Metals ICP				
Cadmium	---	U	0.20	mg/kg dry
Cobalt	---	U	1.3	mg/kg dry
Chromium	7.0		0.33	mg/kg dry
Copper	3.0		0.66	mg/kg dry
Potassium	350		33	mg/kg dry
Magnesium	7300		33	mg/kg dry
Manganese	75		0.33	mg/kg dry
Sodium	4900		66	mg/kg dry
Nickel	---	U	1.3	mg/kg dry
Lead	1.1		0.52	mg/kg dry
Antimony	---	U	1.3	mg/kg dry
Selenium	---	U	1.3	mg/kg dry
Thallium	---	U	1.3	mg/kg dry
Vanadium	8.2		1.3	mg/kg dry
Zinc	3.7		1.3	mg/kg dry
Aluminum	1100		6.6	mg/kg dry
Iron	1100		3.3	mg/kg dry
Sanitary				
Organic Carbon, Total	69000		1000	mg/kg
Field ID: ACC-SD04			**Sample ID: 1109045-02**	
Miscellaneous				
% Gravel & Larger >2.0 mm	30		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	16		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	3.0		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	11		0.10	% by Weight
% Silt	8.2		0.10	% by Weight
% Medium Sand >.25 - .5 mm	16		0.10	% by Weight
% Fine Sand >.125 - .25 mm	7.3		0.10	% by Weight

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SD04			**Sample ID: 1109045-02**	
Miscellaneous				
% Clay & Colloids	8.3		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.044	mg/kg dry
Metals ICP				
Silver	---	U	0.36	mg/kg dry
Arsenic	2.2		0.58	mg/kg dry
Barium	20		7.3	mg/kg dry
Beryllium	---	U	0.22	mg/kg dry
Calcium	330000		360	mg/kg dry
Cadmium	---	U	0.22	mg/kg dry
Cobalt	---	U	1.5	mg/kg dry
Chromium	12		0.36	mg/kg dry
Copper	7.9		0.73	mg/kg dry
Potassium	680		36	mg/kg dry
Magnesium	8000		36	mg/kg dry
Manganese	82		0.36	mg/kg dry
Sodium	4400		73	mg/kg dry
Nickel	2.8		1.5	mg/kg dry
Lead	2.3		0.58	mg/kg dry
Antimony	---	U	1.5	mg/kg dry
Selenium	---	U	1.5	mg/kg dry
Thallium	---	U	1.5	mg/kg dry
Vanadium	16		1.5	mg/kg dry
Zinc	12		1.5	mg/kg dry
Aluminum	2500		7.3	mg/kg dry
Iron	3600		3.6	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SD04			**Sample ID: 1109045-02**	
Sanitary				
Organic Carbon, Total	67000		1000	mg/kg
Field ID: ACC-SD05			**Sample ID: 1109045-03**	
Miscellaneous				
% Gravel & Larger >2.0 mm	---	U	0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	4.7		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	2.4		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	5.8		0.10	% by Weight
% Silt	39		0.10	% by Weight
% Medium Sand >.25 - .5 mm	5.6		0.10	% by Weight
% Fine Sand >.125 - .25 mm	5.3		0.10	% by Weight
% Clay & Colloids	37		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.102	mg/kg dry
Metals ICP				
Silver	---	U	0.50	mg/kg dry
Aluminum	25000		10	mg/kg dry
Arsenic	12		0.80	mg/kg dry
Barium	25		10	mg/kg dry
Beryllium	---	U	0.30	mg/kg dry
Calcium	4800		50	mg/kg dry
Cadmium	---	U	0.30	mg/kg dry
Cobalt	7.3		2.0	mg/kg dry
Chromium	38		0.50	mg/kg dry
Copper	67		1.0	mg/kg dry
Iron	24000		5.0	mg/kg dry
Potassium	7600		50	mg/kg dry
Magnesium	13000		50	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SD05			**Sample ID: 1109045-03**	
Metals ICP				
Manganese	120		0.50	mg/kg dry
Sodium	35000		100	mg/kg dry
Nickel	16		2.0	mg/kg dry
Lead	14		0.80	mg/kg dry
Antimony	---	U	2.0	mg/kg dry
Selenium	3.4		2.0	mg/kg dry
Thallium	---	U	2.0	mg/kg dry
Vanadium	130		2.0	mg/kg dry
Zinc	89		2.0	mg/kg dry
Sanitary				
Organic Carbon, Total	170000		1000	mg/kg
Field ID: ACC-SD06			**Sample ID: 1109045-04**	
Miscellaneous				
% Gravel & Larger >2.0 mm	34		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	32		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	0.20		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	20		0.10	% by Weight
% Medium Sand >.25 - .5 mm	9.6		0.10	% by Weight
% Fine Sand >.125 - .25 mm	0.80		0.10	% by Weight
%Silt + % Clay/Colloids (%Total Fines)	2.4		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.046	mg/kg dry
Metals ICP				
Silver	1.8		0.29	mg/kg dry
Aluminum	8700		5.7	mg/kg dry
Arsenic	9.2		0.46	mg/kg dry
Barium	56		5.7	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SD06			**Sample ID: 1109045-04**	
Metals ICP				
Beryllium	0.18		0.17	mg/kg dry
Calcium	140000		290	mg/kg dry
Cadmium	0.48		0.17	mg/kg dry
Cobalt	6.0		1.1	mg/kg dry
Chromium	51		0.29	mg/kg dry
Copper	43		0.57	mg/kg dry
Iron	69000		29	mg/kg dry
Potassium	680		29	mg/kg dry
Magnesium	6300		29	mg/kg dry
Manganese	520		0.29	mg/kg dry
Sodium	4100		57	mg/kg dry
Nickel	15		1.1	mg/kg dry
Lead	190		0.46	mg/kg dry
Antimony	2.4		1.1	mg/kg dry
Selenium	---	U	1.1	mg/kg dry
Thallium	---	U	1.1	mg/kg dry
Vanadium	70		1.1	mg/kg dry
Zinc	500		1.1	mg/kg dry
Sanitary				
Organic Carbon, Total	31000		1000	mg/kg
Field ID: ACC-SD07			**Sample ID: 1109045-05**	
Miscellaneous				
% Gravel & Larger >2.0 mm	26		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	4.4		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	19		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	4.4		0.10	% by Weight
% Silt	13		0.10	% by Weight

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SD07			**Sample ID: 1109045-05**	
Miscellaneous				
% Medium Sand >.25 - .5 mm	8.6		0.10	% by Weight
% Fine Sand >.125 - .25 mm	18		0.10	% by Weight
% Clay & Colloids	6.4		0.10	% by Weight
Mercury CVAA				
Mercury	0.062		0.037	mg/kg dry
Metals ICP				
Silver	---	U	0.31	mg/kg dry
Aluminum	6900		6.2	mg/kg dry
Arsenic	11		0.50	mg/kg dry
Barium	29		6.2	mg/kg dry
Beryllium	---	U	0.19	mg/kg dry
Calcium	280000		310	mg/kg dry
Cadmium	---	U	0.19	mg/kg dry
Cobalt	1.2		1.2	mg/kg dry
Chromium	13		0.31	mg/kg dry
Copper	16		0.62	mg/kg dry
Iron	5900		3.1	mg/kg dry
Potassium	680		31	mg/kg dry
Magnesium	8800		31	mg/kg dry
Manganese	350		0.31	mg/kg dry
Sodium	8600		62	mg/kg dry
Nickel	3.7		1.2	mg/kg dry
Lead	25		0.50	mg/kg dry
Antimony	---	U	1.2	mg/kg dry
Selenium	---	U	1.2	mg/kg dry
Thallium	---	U	1.2	mg/kg dry
Vanadium	18		1.2	mg/kg dry
Zinc	170		1.2	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SD07			**Sample ID: 1109045-05**	
Sanitary				
Organic Carbon, Total	84000		1000	mg/kg
Field ID: ACC-SD52			**Sample ID: 1109045-06**	
Miscellaneous				
% Gravel & Larger >2.0 mm	24		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	15		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	4.7		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	22		0.10	% by Weight
% Silt	9.7		0.10	% by Weight
% Medium Sand >.25 - .5 mm	11		0.10	% by Weight
% Fine Sand >.125 - .25 mm	7.5		0.10	% by Weight
% Clay & Colloids	5.9		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.041	mg/kg dry
Metals ICP				
Silver	---	U	0.21	mg/kg dry
Aluminum	3500		4.2	mg/kg dry
Arsenic	1.2		0.34	mg/kg dry
Barium	16		4.2	mg/kg dry
Beryllium	---	U	0.13	mg/kg dry
Calcium	280000		210	mg/kg dry
Cadmium	---	U	0.13	mg/kg dry
Cobalt	1.5		0.85	mg/kg dry
Chromium	10		0.21	mg/kg dry
Copper	14		0.42	mg/kg dry
Iron	4500		2.1	mg/kg dry
Potassium	630		21	mg/kg dry
Magnesium	20000		21	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SD52			**Sample ID: 1109045-06**	
Metals ICP				
Manganese	100		0.21	mg/kg dry
Sodium	4100		42	mg/kg dry
Nickel	3.9		0.85	mg/kg dry
Lead	6.0		0.34	mg/kg dry
Antimony	---	U	0.85	mg/kg dry
Selenium	---	U	0.85	mg/kg dry
Thallium	---	U	0.85	mg/kg dry
Vanadium	18		0.85	mg/kg dry
Zinc	17		0.85	mg/kg dry
Sanitary				
Organic Carbon, Total	63000		1000	mg/kg
Field ID: ACC-SW01			**Sample ID: 1109045-07**	
Sanitary				
Chloride	16000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	8.5		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	400000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	490000		500	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SW01			**Sample ID: 1109045-07**	
Metals ICP				
Magnesium	1400000		5000	ug/L
Manganese	41		5.0	ug/L
Sodium	9600000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	140		50	ug/L
Field ID: ACC-SW04			**Sample ID: 1109045-08**	
Sanitary				
Chloride	16000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	390000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	480000		500	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SW04			**Sample ID: 1109045-08**	
Metals ICP				
Magnesium	1400000		5000	ug/L
Manganese	6.6		5.0	ug/L
Sodium	9100000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: ACC-SW05			**Sample ID: 1109045-09**	
Sanitary				
Chloride	15000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	370000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	470000		500	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SW05			**Sample ID: 1109045-09**	
Metals ICP				
Magnesium	1300000		5000	ug/L
Manganese	96		5.0	ug/L
Sodium	9100000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	63		50	ug/L
Field ID: ACC-SW06			**Sample ID: 1109045-10**	
Sanitary				
Chloride	16000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	390000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	490000		500	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SW06			**Sample ID: 1109045-10**	
Metals ICP				
Magnesium	1400000		5000	ug/L
Manganese	24		5.0	ug/L
Sodium	10000000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	82		50	ug/L
Field ID: ACC-SW07			**Sample ID: 1109045-11**	
Sanitary				
Chloride	14000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	11		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	380000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	20	ug/L
Potassium	470000		500	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SW07			**Sample ID: 1109045-11**	
Metals ICP				
Magnesium	1300000		5000	ug/L
Manganese	22		5.0	ug/L
Sodium	8700000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: ACC-SW52			**Sample ID: 1109045-12**	
Sanitary				
Chloride	16000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	380000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	490000		500	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ACC-SW52			**Sample ID: 1109045-12**	
Metals ICP				
Magnesium	1400000		5000	ug/L
Manganese	7.0		5.0	ug/L
Sodium	9600000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: MAN-SW14			**Sample ID: 1109045-13**	
Sanitary				
Chloride	17000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	31		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	350000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	520000		500	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW14			**Sample ID: 1109045-13**	
Metals ICP				
Magnesium	1400000		5000	ug/L
Manganese	45		5.0	ug/L
Sodium	10000000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	20		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	120		100	ug/L
Iron	---	U	50	ug/L
Field ID: MAN-SW15			**Sample ID: 1109045-14**	
Sanitary				
Chloride	14000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	22		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	340000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	480000		500	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW15			**Sample ID: 1109045-14**	
Metals ICP				
Magnesium	1300000		5000	ug/L
Manganese	27		5.0	ug/L
Sodium	9300000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	250		100	ug/L
Iron	91		50	ug/L
Field ID: MAN-SW16			**Sample ID: 1109045-15**	
Sanitary				
Chloride	12000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	14		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	280000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	350000		500	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW16			**Sample ID: 1109045-15**	
Metals ICP				
Magnesium	990000		5000	ug/L
Manganese	160		5.0	ug/L
Sodium	6700000		10000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	21		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	300		100	ug/L
Iron	200		50	ug/L
Field ID: BG-SD53			**Sample ID: 1109051-01**	
Mercury CVAA				
Mercury	---	U	0.052	mg/kg dry
Metals ICP				
Silver	---	U	0.31	mg/kg dry
Aluminum	5300		6.3	mg/kg dry
Arsenic	5.5		0.50	mg/kg dry
Barium	65		6.3	mg/kg dry
Beryllium	---	U	0.19	mg/kg dry
Calcium	70000		310	mg/kg dry
Cadmium	---	U	0.19	mg/kg dry
Cobalt	6.8		1.3	mg/kg dry
Chromium	14		0.31	mg/kg dry
Copper	25		0.63	mg/kg dry
Iron	20000		6.3	mg/kg dry
Potassium	680		31	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-SD53			**Sample ID: 1109051-01**	
Metals ICP				
Magnesium	3300		31	mg/kg dry
Manganese	340		0.31	mg/kg dry
Sodium	3300		63	mg/kg dry
Nickel	11		1.3	mg/kg dry
Lead	6.2		0.50	mg/kg dry
Antimony	---	U	1.3	mg/kg dry
Selenium	---	U	1.3	mg/kg dry
Thallium	---	U	1.3	mg/kg dry
Vanadium	50		1.3	mg/kg dry
Zinc	24		1.3	mg/kg dry
Sanitary				
Organic Carbon, Total	7600		1000	mg/kg
Field ID: BG-SD54			**Sample ID: 1109051-02**	
Mercury CVAA				
Mercury	---	U	0.050	mg/kg dry
Metals ICP				
Silver	---	U	0.31	mg/kg dry
Aluminum	4500		6.2	mg/kg dry
Arsenic	2.5		0.50	mg/kg dry
Barium	14		6.2	mg/kg dry
Beryllium	---	U	0.19	mg/kg dry
Calcium	29000		31	mg/kg dry
Cadmium	---	U	0.19	mg/kg dry
Cobalt	4.0		1.2	mg/kg dry
Chromium	9.6		0.31	mg/kg dry
Copper	9.5		0.62	mg/kg dry
Iron	8000		6.2	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-SD54			**Sample ID: 1109051-02**	
Metals ICP				
Potassium	740		31	mg/kg dry
Magnesium	2800		31	mg/kg dry
Manganese	120		0.31	mg/kg dry
Sodium	4300		62	mg/kg dry
Nickel	3.1		1.2	mg/kg dry
Lead	3.5		0.50	mg/kg dry
Antimony	---	U	1.2	mg/kg dry
Selenium	---	U	1.2	mg/kg dry
Thallium	---	U	1.2	mg/kg dry
Vanadium	45		1.2	mg/kg dry
Zinc	16		1.2	mg/kg dry
Sanitary				
Organic Carbon, Total	---	U	1000	mg/kg
Field ID: BG-SD55			**Sample ID: 1109051-03**	
Mercury CVAA				
Mercury	---	U	0.044	mg/kg dry
Metals ICP				
Silver	---	U	0.46	mg/kg dry
Aluminum	17000		9.1	mg/kg dry
Arsenic	2.3		0.73	mg/kg dry
Barium	94		9.1	mg/kg dry
Beryllium	---	U	0.27	mg/kg dry
Calcium	16000		46	mg/kg dry
Cadmium	---	U	0.27	mg/kg dry
Cobalt	13		1.8	mg/kg dry
Chromium	22		0.46	mg/kg dry
Copper	53		0.91	mg/kg dry
Iron	22000		9.1	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-SD55			**Sample ID: 1109051-03**	
Metals ICP				
Potassium	2500		46	mg/kg dry
Magnesium	6200		46	mg/kg dry
Manganese	330		0.46	mg/kg dry
Sodium	2800		91	mg/kg dry
Nickel	11		1.8	mg/kg dry
Lead	6.3		0.73	mg/kg dry
Antimony	---	U	1.8	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Vanadium	88		1.8	mg/kg dry
Zinc	51		1.8	mg/kg dry
Sanitary				
Organic Carbon, Total	18000		1000	mg/kg
Field ID: BG-SD56			**Sample ID: 1109051-04**	
Mercury CVAA				
Mercury	---	U	0.055	mg/kg dry
Metals ICP				
Silver	---	U	0.54	mg/kg dry
Aluminum	15000		11	mg/kg dry
Arsenic	1.4		0.86	mg/kg dry
Barium	65		11	mg/kg dry
Beryllium	---	U	0.32	mg/kg dry
Calcium	26000		54	mg/kg dry
Cadmium	---	U	0.32	mg/kg dry
Cobalt	11		2.2	mg/kg dry
Chromium	27		0.54	mg/kg dry
Copper	45		1.1	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-SD56			**Sample ID: 1109051-04**	
Metals ICP				
Iron	24000		11	mg/kg dry
Potassium	1800		54	mg/kg dry
Magnesium	5700		54	mg/kg dry
Manganese	470		0.54	mg/kg dry
Sodium	1400		110	mg/kg dry
Nickel	10		2.2	mg/kg dry
Lead	5.0		0.86	mg/kg dry
Antimony	---	U	2.2	mg/kg dry
Selenium	---	U	2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	110		2.2	mg/kg dry
Zinc	58		2.2	mg/kg dry
Sanitary				
Organic Carbon, Total	5300		1000	mg/kg
Field ID: BG-SW53			**Sample ID: 1109051-05**	
Sanitary				
Chloride	13000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	85		8.0	ug/L
Barium	130		100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	750000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	38		20	ug/L

Project:St. Croix Alumina - 1109036

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-SW53			**Sample ID: 1109051-05**	
Metals ICP				
Chromium	75		5.0	ug/L
Copper	260		10	ug/L
Potassium	390000		500	ug/L
Magnesium	1100000		500	ug/L
Manganese	2200		5.0	ug/L
Sodium	8400000		50000	ug/L
Nickel	44		20	ug/L
Lead	64		8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U L	20	ug/L
Vanadium	270		20	ug/L
Zinc	280		20	ug/L
Aluminum	28000		100	ug/L
Iron	51000		50	ug/L
Field ID: BG-SW54			**Sample ID: 1109051-06**	
Sanitary				
Chloride	12000		250	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	300000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-SW54			**Sample ID: 1109051-06**	
Metals ICP				
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	320000		500	ug/L
Magnesium	910000		500	ug/L
Manganese	91		5.0	ug/L
Sodium	6900000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	1800		100	ug/L
Iron	2000		50	ug/L
Field ID: BG-SW55			**Sample ID: 1109051-07**	
Sanitary				
Chloride	1000		50	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	87000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-SW55			**Sample ID: 1109051-07**	
Metals ICP				
Chromium	7.7		5.0	ug/L
Copper	23		10	ug/L
Potassium	33000		500	ug/L
Magnesium	110000		500	ug/L
Manganese	220		5.0	ug/L
Sodium	730000		2000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	51		20	ug/L
Zinc	22		20	ug/L
Aluminum	7400		100	ug/L
Iron	9100		50	ug/L
Field ID: BG-SW56			**Sample ID: 1109051-08**	
Sanitary				
Chloride	130		5.0	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	58000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-SW56			**Sample ID: 1109051-08**	
Metals ICP				
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	4500		500	ug/L
Magnesium	28000		500	ug/L
Manganese	100		5.0	ug/L
Sodium	98000		1000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	22		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	460		100	ug/L
Iron	640		50	ug/L
Field ID: MAN-SD08			**Sample ID: 1109052-01**	
Miscellaneous				
% Gravel & Larger >2.0 mm	30		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	19		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	1.3		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	10		0.10	% by Weight
% Silt	2.0		0.10	% by Weight
% Medium Sand >.25 - .5 mm	23		0.10	% by Weight
% Fine Sand >.125 - .25 mm	13		0.10	% by Weight
% Clay & Colloids	2.2		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.049	mg/kg dry
Metals ICP				

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD08			**Sample ID: 1109052-01**	
Metals ICP				
Silver	---	U	0.45	mg/kg dry
Arsenic	3.5		0.73	mg/kg dry
Barium	13		9.1	mg/kg dry
Beryllium	---	U	0.27	mg/kg dry
Calcium	330000		450	mg/kg dry
Cadmium	---	U	0.27	mg/kg dry
Cobalt	---	U	1.8	mg/kg dry
Chromium	7.4		0.45	mg/kg dry
Copper	4.0		0.91	mg/kg dry
Potassium	400		45	mg/kg dry
Magnesium	5900		45	mg/kg dry
Manganese	96		0.45	mg/kg dry
Sodium	6500		91	mg/kg dry
Nickel	---	U	1.8	mg/kg dry
Lead	3.1		0.73	mg/kg dry
Antimony	---	U	1.8	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Vanadium	22		1.8	mg/kg dry
Zinc	3.7		1.8	mg/kg dry
Aluminum	1200		9.1	mg/kg dry
Iron	1900		9.1	mg/kg dry
Sanitary				
Organic Carbon, Total	50000		1000	mg/kg
Field ID: MAN-SD12			**Sample ID: 1109052-02**	
Miscellaneous				
% Gravel & Larger >2.0 mm	4.4		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	32		0.10	% by Weight

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD12			**Sample ID: 1109052-02**	
Miscellaneous				
% Very Fine Sand >.0625 - .125 mm	2.2		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	13		0.10	% by Weight
% Medium Sand >.25 - .5 mm	23		0.10	% by Weight
% Fine Sand >.125 - .25 mm	19		0.10	% by Weight
%Silt + % Clay/Colloids (%Total Fines)	6.2		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.050	mg/kg dry
Metals ICP				
Silver	---	U	0.47	mg/kg dry
Arsenic	3.7		0.74	mg/kg dry
Barium	9.8		9.3	mg/kg dry
Beryllium	---	U	0.28	mg/kg dry
Calcium	320000		470	mg/kg dry
Cadmium	---	U	0.28	mg/kg dry
Cobalt	---	U	1.9	mg/kg dry
Chromium	6.0		0.47	mg/kg dry
Copper	3.2		0.93	mg/kg dry
Potassium	410		47	mg/kg dry
Magnesium	5900		47	mg/kg dry
Manganese	94		0.47	mg/kg dry
Sodium	6300		93	mg/kg dry
Nickel	---	U	1.9	mg/kg dry
Lead	2.9		0.74	mg/kg dry
Antimony	---	U	1.9	mg/kg dry
Selenium	---	U	1.9	mg/kg dry
Thallium	---	U	1.9	mg/kg dry
Vanadium	11		1.9	mg/kg dry
Zinc	3.4		1.9	mg/kg dry
Aluminum	1100		9.3	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD12			**Sample ID: 1109052-02**	
Metals ICP				
Iron	1500		9.3	mg/kg dry
Sanitary				
Organic Carbon, Total	24000		1000	mg/kg
Field ID: MAN-SD13			**Sample ID: 1109052-03**	
Miscellaneous				
% Gravel & Larger >2.0 mm	55		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	5.4		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	0.50		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	21		0.10	% by Weight
% Silt	7.4		0.10	% by Weight
% Medium Sand >.25 - .5 mm	2.8		0.10	% by Weight
% Fine Sand >.125 - .25 mm	1.6		0.10	% by Weight
% Clay & Colloids	6.2		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.097	mg/kg dry
Metals ICP				
Silver	---	U	0.89	mg/kg dry
Arsenic	4.0		1.4	mg/kg dry
Barium	---	U	18	mg/kg dry
Beryllium	---	U	0.53	mg/kg dry
Calcium	280000		890	mg/kg dry
Cadmium	---	U	0.53	mg/kg dry
Cobalt	---	U	3.6	mg/kg dry
Chromium	20		0.89	mg/kg dry
Copper	9.9		1.8	mg/kg dry
Potassium	1800		89	mg/kg dry
Magnesium	12000		89	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD13			**Sample ID: 1109052-03**	
Metals ICP				
Manganese	80		0.89	mg/kg dry
Sodium	24000		180	mg/kg dry
Nickel	4.3		3.6	mg/kg dry
Lead	4.2		1.4	mg/kg dry
Antimony	---	U	3.6	mg/kg dry
Selenium	---	U	3.6	mg/kg dry
Thallium	---	U	3.6	mg/kg dry
Vanadium	47		3.6	mg/kg dry
Zinc	12		3.6	mg/kg dry
Aluminum	7500		18	mg/kg dry
Iron	3800		18	mg/kg dry
Sanitary				
Organic Carbon, Total	70000			mg/kg
Field ID: MAN-SD14			**Sample ID: 1109052-04**	
Miscellaneous				
% Gravel & Larger >2.0 mm	7.1		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	8.2		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	3.1		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	13		0.10	% by Weight
% Silt	7.8		0.10	% by Weight
% Medium Sand >.25 - .5 mm	22		0.10	% by Weight
% Fine Sand >.125 - .25 mm	29		0.10	% by Weight
% Clay & Colloids	10		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.098	mg/kg dry
Metals ICP				
Silver	---	U	0.91	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD14			**Sample ID: 1109052-04**	
Metals ICP				
Arsenic	3.9		1.5	mg/kg dry
Barium	---	U	18	mg/kg dry
Beryllium	---	U	0.54	mg/kg dry
Calcium	370000		910	mg/kg dry
Cadmium	---	U	0.54	mg/kg dry
Cobalt	---	U	3.6	mg/kg dry
Chromium	15		0.91	mg/kg dry
Copper	8.6		1.8	mg/kg dry
Potassium	1800		91	mg/kg dry
Magnesium	15000		91	mg/kg dry
Manganese	120		0.91	mg/kg dry
Sodium	33000		180	mg/kg dry
Nickel	3.6		3.6	mg/kg dry
Lead	4.9		1.5	mg/kg dry
Antimony	---	U	3.6	mg/kg dry
Selenium	---	U	3.6	mg/kg dry
Thallium	---	U	3.6	mg/kg dry
Vanadium	43		3.6	mg/kg dry
Zinc	14		3.6	mg/kg dry
Aluminum	4400		18	mg/kg dry
Iron	2700		18	mg/kg dry
Sanitary				
Organic Carbon, Total	60000			mg/kg
Field ID: MAN-SD15			**Sample ID: 1109052-05**	
Miscellaneous				
% Gravel & Larger >2.0 mm	12		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	21		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	1.3		0.10	% by Weight

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD15			**Sample ID: 1109052-05**	
Miscellaneous				
% Very Coarse Sand >1 - 2 mm	37		0.10	% by Weight
% Medium Sand >.25 - .5 mm	6.1		0.10	% by Weight
% Fine Sand >.125 - .25 mm	2.6		0.10	% by Weight
%Silt + % Clay/Colloids (%Total Fines)	20		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.125	mg/kg dry
Metals ICP				
Silver	---	U	1.2	mg/kg dry
Arsenic	5.5	J	1.9	mg/kg dry
Barium	---	U	24	mg/kg dry
Beryllium	---	U	0.71	mg/kg dry
Calcium	250000		1200	mg/kg dry
Cadmium	---	U	0.71	mg/kg dry
Cobalt	---	U	4.7	mg/kg dry
Chromium	7.1		1.2	mg/kg dry
Copper	7.2		2.4	mg/kg dry
Potassium	2300		120	mg/kg dry
Magnesium	13000		120	mg/kg dry
Manganese	100		1.2	mg/kg dry
Sodium	46000		240	mg/kg dry
Nickel	---	U	4.7	mg/kg dry
Lead	3.8		1.9	mg/kg dry
Antimony	---	U	4.7	mg/kg dry
Selenium	---	U	4.7	mg/kg dry
Thallium	---	U	4.7	mg/kg dry
Vanadium	46		4.7	mg/kg dry
Zinc	10		4.7	mg/kg dry
Aluminum	3800		24	mg/kg dry
Iron	2200		24	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD15			**Sample ID: 1109052-05**	
Sanitary				
Organic Carbon, Total	62000			mg/kg
Field ID: MAN-SD16			**Sample ID: 1109052-06**	
Miscellaneous				
% Gravel & Larger >2.0 mm	8.4		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	45		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	0.20		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	22		0.10	% by Weight
% Silt	3.9		0.10	% by Weight
% Medium Sand >.25 - .5 mm	14		0.10	% by Weight
% Fine Sand >.125 - .25 mm	1.2		0.10	% by Weight
% Clay & Colloids	5.0		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.058	mg/kg dry
Metals ICP				
Silver	---	U	0.43	mg/kg dry
Arsenic	3.0		0.68	mg/kg dry
Barium	11		8.6	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Calcium	390000		430	mg/kg dry
Cadmium	---	U	0.26	mg/kg dry
Cobalt	---	U	1.7	mg/kg dry
Chromium	3.9		0.43	mg/kg dry
Copper	3.0		0.86	mg/kg dry
Potassium	420		43	mg/kg dry
Magnesium	3900		43	mg/kg dry
Manganese	130		0.43	mg/kg dry
Sodium	7100		86	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD16			**Sample ID: 1109052-06**	
Metals ICP				
Nickel	---	U	1.7	mg/kg dry
Lead	3.0		0.68	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Thallium	---	U	1.7	mg/kg dry
Vanadium	10		1.7	mg/kg dry
Zinc	2.5		1.7	mg/kg dry
Aluminum	790		8.6	mg/kg dry
Iron	1000		8.6	mg/kg dry
Sanitary				
Organic Carbon, Total	65000			mg/kg
Field ID: MAN-SW08			**Sample ID: 1109052-07**	
Sanitary				
Chloride	16000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	13		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	1300000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	22		5.0	ug/L
Copper	15		10	ug/L
Potassium	470000		500	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW08			**Sample ID: 1109052-07**	
Metals ICP				
Magnesium	1300000		500	ug/L
Manganese	270		5.0	ug/L
Sodium	10000000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	33		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	5400		100	ug/L
Iron	6000		50	ug/L
Field ID: MAN-SW12			**Sample ID: 1109052-08**	
Sanitary				
Chloride	16000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	400000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	470000		500	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW12			**Sample ID: 1109052-08**	
Metals ICP				
Magnesium	1300000		500	ug/L
Manganese	28		5.0	ug/L
Sodium	9700000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	980		100	ug/L
Iron	1000		50	ug/L
Field ID: MAN-SW13			**Sample ID: 1109052-09**	
Sanitary				
Chloride	17000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	41		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	360000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	480000		500	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW13			**Sample ID: 1109052-09**	
Metals ICP				
Magnesium	1300000		500	ug/L
Manganese	76		5.0	ug/L
Sodium	10000000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	34		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	1600		100	ug/L
Iron	540		50	ug/L
Field ID: SD-RIN06			**Sample ID: 1109052-10**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	550		500	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SD-RIN06			**Sample ID: 1109052-10**	
Metals ICP				
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: UCP-SW36			**Sample ID: 1109054-01**	
Sanitary				
Chloride	16000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	9.8		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	330000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	130		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	460000		500	ug/L
Magnesium	1300000		500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	10000000		50000	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SW36			**Sample ID: 1109054-01**	
Metals ICP				
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	190		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	230		100	ug/L
Iron	110		50	ug/L
Field ID: UCP-SW38			**Sample ID: 1109054-02**	
Sanitary				
Chloride	21000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	10		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	510000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	11		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	650000		500	ug/L
Magnesium	1700000		500	ug/L
Manganese	5.6		5.0	ug/L
Sodium	13000000		50000	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SW38			**Sample ID: 1109054-02**	
Metals ICP				
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	45		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	2700		100	ug/L
Iron	2700		50	ug/L
Field ID: WST- RIN01			**Sample ID: 1109054-03**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	---	U	500	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: WST- RIN01			**Sample ID: 1109054-03**	
Metals ICP				
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: WST- RIN02			**Sample ID: 1109054-04**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	---	U	500	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: WST- RIN02			**Sample ID: 1109054-04**	
Metals ICP				
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: ADP-SD48			**Sample ID: 1109055-01**	
Miscellaneous				
% Gravel & Larger >2.0 mm	34		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	6.3		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	3.9		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	11		0.10	% by Weight
% Silt	14		0.10	% by Weight
% Medium Sand >.25 - .5 mm	5.0		0.10	% by Weight
% Fine Sand >.125 - .25 mm	5.1		0.10	% by Weight
% Clay & Colloids	20		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.054	mg/kg dry
Metals ICP				
Silver	---	U	0.49	mg/kg dry
Aluminum	28000		9.8	mg/kg dry
Arsenic	13		0.79	mg/kg dry
Barium	98		9.8	mg/kg dry
Beryllium	---	U	0.29	mg/kg dry
Calcium	140000		490	mg/kg dry
Cadmium	---	U	0.29	mg/kg dry
Cobalt	8.9		2.0	mg/kg dry
Chromium	25		0.49	mg/kg dry
Copper	41		0.98	mg/kg dry
Iron	22000		9.8	mg/kg dry
Potassium	3700		49	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-SD48			**Sample ID: 1109055-01**	
Metals ICP				
Magnesium	9200		49	mg/kg dry
Manganese	430		0.49	mg/kg dry
Sodium	3900		98	mg/kg dry
Nickel	10		2.0	mg/kg dry
Lead	3.2		0.79	mg/kg dry
Antimony	---	U	2.0	mg/kg dry
Selenium	---	U	2.0	mg/kg dry
Thallium	---	U	2.0	mg/kg dry
Vanadium	110		2.0	mg/kg dry
Zinc	33		2.0	mg/kg dry
Sanitary				
Organic Carbon, Total	11000			mg/kg
Field ID: ADP-SD49			**Sample ID: 1109055-02**	
Miscellaneous				
% Gravel & Larger >2.0 mm	33		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	5.2		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	9.2		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	6.3		0.10	% by Weight
% Silt	18		0.10	% by Weight
% Medium Sand >.25 - .5 mm	10		0.10	% by Weight
% Fine Sand >.125 - .25 mm	13		0.10	% by Weight
% Clay & Colloids	4.8		0.10	% by Weight
Mercury CVAA				
Mercury	0.461		0.103	mg/kg dry
Metals ICP				
Silver	---	U	0.91	mg/kg dry
Aluminum	31000		18	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-SD49			**Sample ID: 1109055-02**	
Metals ICP				
Arsenic	12		1.5	mg/kg dry
Barium	410		18	mg/kg dry
Beryllium	1.2		0.55	mg/kg dry
Calcium	55000		91	mg/kg dry
Cadmium	---	U	0.55	mg/kg dry
Cobalt	6.2		3.7	mg/kg dry
Chromium	96		0.91	mg/kg dry
Copper	29		1.8	mg/kg dry
Iron	33000		18	mg/kg dry
Potassium	5000		91	mg/kg dry
Magnesium	17000		91	mg/kg dry
Manganese	230		0.91	mg/kg dry
Sodium	19000		180	mg/kg dry
Nickel	22		3.7	mg/kg dry
Lead	35		1.5	mg/kg dry
Antimony	---	U	3.7	mg/kg dry
Selenium	---	U	3.7	mg/kg dry
Thallium	---	U	3.7	mg/kg dry
Vanadium	170		3.7	mg/kg dry
Zinc	62		3.7	mg/kg dry
Sanitary				
Organic Carbon, Total	290000			mg/kg
Field ID: ADP-SD50			**Sample ID: 1109055-03**	
Miscellaneous				
% Gravel & Larger >2.0 mm	15		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	6.3		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	7.2		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	3.5		0.10	% by Weight

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-SD50			**Sample ID: 1109055-03**	
Miscellaneous				
% Silt	28		0.10	% by Weight
% Medium Sand >.25 - .5 mm	21		0.10	% by Weight
% Fine Sand >.125 - .25 mm	15		0.10	% by Weight
% Clay & Colloids	4.7		0.10	% by Weight
Mercury CVAA				
Mercury	0.095		0.077	mg/kg dry
Metals ICP				
Silver	---	U	0.76	mg/kg dry
Arsenic	21		1.2	mg/kg dry
Barium	330		15	mg/kg dry
Beryllium	0.72		0.46	mg/kg dry
Calcium	45000		76	mg/kg dry
Cadmium	0.56		0.46	mg/kg dry
Cobalt	4.3		3.0	mg/kg dry
Chromium	22		0.76	mg/kg dry
Copper	23		1.5	mg/kg dry
Iron	19000		15	mg/kg dry
Potassium	1200		76	mg/kg dry
Magnesium	7000		76	mg/kg dry
Manganese	120		0.76	mg/kg dry
Sodium	11000		150	mg/kg dry
Nickel	20		3.0	mg/kg dry
Lead	5.4		1.2	mg/kg dry
Antimony	---	U	3.0	mg/kg dry
Selenium	---	U	3.0	mg/kg dry
Thallium	---	U	3.0	mg/kg dry
Vanadium	99		3.0	mg/kg dry
Zinc	32		3.0	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-SD50			**Sample ID: 1109055-03**	
Metals ICP				
Aluminum	9200		15	mg/kg dry
Sanitary				
Organic Carbon, Total	260000			mg/kg
Field ID: ADP-SD51			**Sample ID: 1109055-04**	
Miscellaneous				
% Gravel & Larger >2.0 mm	0.40		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	2.6		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	12		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	1.0		0.10	% by Weight
% Silt	48		0.10	% by Weight
% Medium Sand >.25 - .5 mm	12		0.10	% by Weight
% Fine Sand >.125 - .25 mm	14		0.10	% by Weight
% Clay & Colloids	9.2		0.10	% by Weight
Mercury CVAA				
Mercury	0.233		0.094	mg/kg dry
Metals ICP				
Silver	---	U	0.75	mg/kg dry
Arsenic	8.5		1.2	mg/kg dry
Barium	370		15	mg/kg dry
Beryllium	0.87		0.45	mg/kg dry
Calcium	9200		75	mg/kg dry
Cadmium	---	U	0.45	mg/kg dry
Cobalt	4.6		3.0	mg/kg dry
Chromium	16		0.75	mg/kg dry
Copper	16		1.5	mg/kg dry
Iron	12000		15	mg/kg dry
Potassium	1200		75	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-SD51			**Sample ID: 1109055-04**	
Metals ICP				
Magnesium	6200		75	mg/kg dry
Manganese	130		0.75	mg/kg dry
Sodium	8800		150	mg/kg dry
Nickel	18		3.0	mg/kg dry
Lead	6.7		1.2	mg/kg dry
Antimony	---	U	3.0	mg/kg dry
Selenium	---	U	3.0	mg/kg dry
Thallium	---	U	3.0	mg/kg dry
Vanadium	62		3.0	mg/kg dry
Zinc	42		3.0	mg/kg dry
Aluminum	7600		15	mg/kg dry
Sanitary				
Organic Carbon, Total	290000			mg/kg
Field ID: LCP-SD26			**Sample ID: 1109055-05**	
Miscellaneous				
% Gravel & Larger >2.0 mm	21		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	6.7		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	8.4		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	8.1		0.10	% by Weight
% Silt	18		0.10	% by Weight
% Medium Sand >.25 - .5 mm	9.3		0.10	% by Weight
% Fine Sand >.125 - .25 mm	13		0.10	% by Weight
% Clay & Colloids	16		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.072	mg/kg dry
Metals ICP				
Silver	---	U	0.58	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SD26			**Sample ID: 1109055-05**	
Metals ICP				
Aluminum	18000		12	mg/kg dry
Arsenic	12		0.93	mg/kg dry
Barium	---	U	12	mg/kg dry
Beryllium	---	U	0.35	mg/kg dry
Calcium	220000		580	mg/kg dry
Cadmium	---	U	0.35	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	45		0.58	mg/kg dry
Copper	13		1.2	mg/kg dry
Potassium	1300		58	mg/kg dry
Magnesium	32000		58	mg/kg dry
Manganese	98		0.58	mg/kg dry
Sodium	10000		120	mg/kg dry
Nickel	5.1		2.3	mg/kg dry
Lead	3.6		0.93	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	200		2.3	mg/kg dry
Zinc	13		2.3	mg/kg dry
Iron	5200		12	mg/kg dry
Sanitary				
Organic Carbon, Total	54000			mg/kg
Field ID: LCP-SD27			**Sample ID: 1109055-06**	
Miscellaneous				
% Gravel & Larger >2.0 mm	---	U	0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	7.1		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	3.5		0.10	% by Weight

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SD27			**Sample ID: 1109055-06**	
Miscellaneous				
% Very Coarse Sand >1 - 2 mm	27		0.10	% by Weight
% Silt	35		0.10	% by Weight
% Medium Sand >.25 - .5 mm	3.3		0.10	% by Weight
% Fine Sand >.125 - .25 mm	2.7		0.10	% by Weight
% Clay & Colloids	21		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.214	mg/kg dry
Metals ICP				
Silver	---	U	1.8	mg/kg dry
Arsenic	25		2.8	mg/kg dry
Barium	---	U	35	mg/kg dry
Beryllium	---	U	1.1	mg/kg dry
Calcium	140000		180	mg/kg dry
Cadmium	---	U	1.1	mg/kg dry
Cobalt	---	U	7.1	mg/kg dry
Chromium	120		1.8	mg/kg dry
Copper	18		3.5	mg/kg dry
Potassium	4000		180	mg/kg dry
Magnesium	42000		180	mg/kg dry
Manganese	230		1.8	mg/kg dry
Sodium	47000		350	mg/kg dry
Nickel	---	U	7.1	mg/kg dry
Lead	3.6		2.8	mg/kg dry
Antimony	---	U	7.1	mg/kg dry
Selenium	---	U	7.1	mg/kg dry
Thallium	---	U	7.1	mg/kg dry
Vanadium	220		7.1	mg/kg dry
Zinc	21		7.1	mg/kg dry
Aluminum	23000		35	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SD27			**Sample ID: 1109055-06**	
Metals ICP				
Iron	6800		35	mg/kg dry
Sanitary				
Organic Carbon, Total	53000			mg/kg
Field ID: LCP-SD28			**Sample ID: 1109055-07**	
Miscellaneous				
% Gravel & Larger >2.0 mm	39		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	17		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	0.60		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	19		0.10	% by Weight
% Silt	0.20		0.10	% by Weight
% Medium Sand >.25 - .5 mm	14		0.10	% by Weight
% Fine Sand >.125 - .25 mm	4.9		0.10	% by Weight
% Clay & Colloids	4.3		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.052	mg/kg dry
Metals ICP				
Silver	---	U	0.36	mg/kg dry
Aluminum	9800		7.2	mg/kg dry
Arsenic	5.2		0.58	mg/kg dry
Barium	25		7.2	mg/kg dry
Beryllium	---	U	0.22	mg/kg dry
Calcium	320000		360	mg/kg dry
Cadmium	---	U	0.22	mg/kg dry
Cobalt	3.3		1.4	mg/kg dry
Chromium	35		0.36	mg/kg dry
Copper	13		0.72	mg/kg dry
Iron	12000		7.2	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SD28			**Sample ID: 1109055-07**	
Metals ICP				
Potassium	850		36	mg/kg dry
Magnesium	12000		36	mg/kg dry
Manganese	300		0.36	mg/kg dry
Sodium	5100		72	mg/kg dry
Nickel	5.7		1.4	mg/kg dry
Lead	17		0.58	mg/kg dry
Antimony	---	U	1.4	mg/kg dry
Selenium	1.7		1.4	mg/kg dry
Thallium	---	U	1.4	mg/kg dry
Vanadium	110		1.4	mg/kg dry
Zinc	43		1.4	mg/kg dry
Sanitary				
Organic Carbon, Total	71000			mg/kg
Field ID: LCP-SD29			**Sample ID: 1109055-08**	
Miscellaneous				
% Gravel & Larger >2.0 mm	12		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	16		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	6.5		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	11		0.10	% by Weight
% Silt	16		0.10	% by Weight
% Medium Sand >.25 - .5 mm	18		0.10	% by Weight
% Fine Sand >.125 - .25 mm	16		0.10	% by Weight
% Clay & Colloids	5.3		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.079	mg/kg dry
Metals ICP				
Silver	---	U	0.74	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SD29			**Sample ID: 1109055-08**	
Metals ICP				
Aluminum	74000		15	mg/kg dry
Arsenic	25		1.2	mg/kg dry
Barium	---	U	15	mg/kg dry
Beryllium	---	U	0.44	mg/kg dry
Calcium	81000		74	mg/kg dry
Cadmium	---	U	0.44	mg/kg dry
Cobalt	---	U	3.0	mg/kg dry
Chromium	66		0.74	mg/kg dry
Copper	25		1.5	mg/kg dry
Potassium	1400		74	mg/kg dry
Magnesium	110000		74	mg/kg dry
Manganese	110		0.74	mg/kg dry
Sodium	17000		150	mg/kg dry
Nickel	7.8		3.0	mg/kg dry
Lead	3.2		1.2	mg/kg dry
Antimony	---	U	3.0	mg/kg dry
Selenium	---	U	3.0	mg/kg dry
Thallium	---	U	3.0	mg/kg dry
Vanadium	320		3.0	mg/kg dry
Zinc	23		3.0	mg/kg dry
Iron	7800		15	mg/kg dry
Sanitary				
Organic Carbon, Total	14000			mg/kg
Field ID: LCP-SD30			**Sample ID: 1109055-09**	
Miscellaneous				
% Gravel & Larger >2.0 mm	15		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	10		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	8.7		0.10	% by Weight

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SD30			**Sample ID: 1109055-09**	
Miscellaneous				
% Very Coarse Sand >1 - 2 mm	11		0.10	% by Weight
% Silt	9.9		0.10	% by Weight
% Medium Sand >.25 - .5 mm	14		0.10	% by Weight
% Fine Sand >.125 - .25 mm	22		0.10	% by Weight
% Clay & Colloids	9.0		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.067	mg/kg dry
Metals ICP				
Silver	---	U	0.56	mg/kg dry
Aluminum	30000		11	mg/kg dry
Arsenic	33		0.89	mg/kg dry
Barium	50		11	mg/kg dry
Beryllium	---	U	0.33	mg/kg dry
Calcium	220000		560	mg/kg dry
Cadmium	---	U	0.33	mg/kg dry
Cobalt	3.0		2.2	mg/kg dry
Chromium	120		0.56	mg/kg dry
Copper	17		1.1	mg/kg dry
Potassium	1500		56	mg/kg dry
Magnesium	44000		56	mg/kg dry
Manganese	250		0.56	mg/kg dry
Sodium	12000		110	mg/kg dry
Nickel	5.4		2.2	mg/kg dry
Lead	4.7		0.89	mg/kg dry
Antimony	---	U	2.2	mg/kg dry
Selenium	2.9		2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	440		2.2	mg/kg dry
Zinc	19		2.2	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SD30			**Sample ID: 1109055-09**	
Metals ICP				
Iron	8500		11	mg/kg dry
Sanitary				
Organic Carbon, Total	49000			mg/kg
Field ID: MAN-SW19			**Sample ID: 1109055-10**	
Sanitary				
Chloride	16000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	8.0	J	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	400000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	480000	J	500	ug/L
Magnesium	1300000		500	ug/L
Manganese	25		5.0	ug/L
Sodium	10000000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U J	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U L	20	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW19			**Sample ID: 1109055-10**	
Metals ICP				
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	500		100	ug/L
Iron	670		50	ug/L
Field ID: RMS-SW42			**Sample ID: 1109055-11**	
Sanitary				
Chloride	580		100	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	150		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	830		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	16000		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	42000		500	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	2800000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	640		20	ug/L
Thallium	---	U	20	ug/L

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMS-SW42			**Sample ID: 1109055-11**	
Metals ICP				
Vanadium	4400		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	10000		100	ug/L
Iron	1300		50	ug/L
Field ID: RMS-SW43			**Sample ID: 1109055-12**	
Sanitary				
Chloride	600		100	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	160		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	820		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	16000		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	42000		500	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	2800000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	650		20	ug/L
Thallium	---	U	20	ug/L

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMS-SW43			**Sample ID: 1109055-12**	
Metals ICP				
Vanadium	4500		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	10000		100	ug/L
Iron	1200		50	ug/L
Field ID: RMS-SW46			**Sample ID: 1109055-13**	
Sanitary				
Chloride	130		50	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	29		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	3200		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	430		5.0	ug/L
Copper	11		10	ug/L
Potassium	6900		500	ug/L
Magnesium	1200		500	ug/L
Manganese	27		5.0	ug/L
Sodium	460000		1000	ug/L
Nickel	---	U	20	ug/L
Lead	9.8		8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMS-SW46			**Sample ID: 1109055-13**	
Metals ICP				
Vanadium	1300		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	45000		100	ug/L
Iron	39000		50	ug/L
Field ID: MAN-SD19			**Sample ID: 1109055-14**	
Miscellaneous				
% Gravel & Larger >2.0 mm	17		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	16		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	6.3		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	11		0.10	% by Weight
% Silt	20		0.10	% by Weight
% Medium Sand >.25 - .5 mm	14		0.10	% by Weight
% Fine Sand >.125 - .25 mm	9.2		0.10	% by Weight
% Clay & Colloids	6.2		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.049	mg/kg dry
Metals ICP				
Silver	---	U	0.33	mg/kg dry
Aluminum	7800		6.6	mg/kg dry
Arsenic	18		0.53	mg/kg dry
Barium	27		6.6	mg/kg dry
Beryllium	---	U	0.20	mg/kg dry
Calcium	220000		330	mg/kg dry
Cadmium	0.70		0.20	mg/kg dry
Cobalt	5.9		1.3	mg/kg dry
Chromium	35		0.33	mg/kg dry
Copper	220		0.66	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD19			**Sample ID: 1109055-14**	
Metals ICP				
Potassium	930		33	mg/kg dry
Magnesium	6700		33	mg/kg dry
Manganese	300		0.33	mg/kg dry
Sodium	7500		66	mg/kg dry
Nickel	20		1.3	mg/kg dry
Lead	150		0.53	mg/kg dry
Antimony	---	U	1.3	mg/kg dry
Selenium	---	U	1.3	mg/kg dry
Thallium	---	U	1.3	mg/kg dry
Vanadium	59		1.3	mg/kg dry
Zinc	460		1.3	mg/kg dry
Iron	50000		66	mg/kg dry
Sanitary				
Organic Carbon, Total	41000			mg/kg
Field ID: RMS-SD42			**Sample ID: 1109055-15**	
Miscellaneous				
% Gravel & Larger >2.0 mm	---	U	0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	0.30		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	9.1		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	---	U	0.10	% by Weight
% Silt	65		0.10	% by Weight
% Medium Sand >.25 - .5 mm	1.7		0.10	% by Weight
% Fine Sand >.125 - .25 mm	6.5		0.10	% by Weight
% Clay & Colloids	18		0.10	% by Weight
Mercury CVAA				
Mercury	0.320		0.041	mg/kg dry
Metals ICP				

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMS-SD42			**Sample ID: 1109055-15**	
Metals ICP				
Silver	---	U	0.46	mg/kg dry
Aluminum	72000		9.2	mg/kg dry
Arsenic	7.8		0.74	mg/kg dry
Barium	84		9.2	mg/kg dry
Beryllium	---	U	0.28	mg/kg dry
Calcium	18000		46	mg/kg dry
Cadmium	2.1	J	0.28	mg/kg dry
Cobalt	---	U	1.8	mg/kg dry
Chromium	480		0.46	mg/kg dry
Copper	11		0.92	mg/kg dry
Iron	250000		92	mg/kg dry
Potassium	470		46	mg/kg dry
Magnesium	750		46	mg/kg dry
Manganese	51		0.46	mg/kg dry
Sodium	33000		92	mg/kg dry
Nickel	10	J	1.8	mg/kg dry
Lead	40		0.74	mg/kg dry
Antimony	---	U J	1.8	mg/kg dry
Selenium	---	U J	1.8	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Vanadium	700		1.8	mg/kg dry
Zinc	12		1.8	mg/kg dry
Sanitary				
Organic Carbon, Total	28000			mg/kg
Field ID: RMS-SD43			**Sample ID: 1109055-16**	
Miscellaneous				
% Gravel & Larger >2.0 mm	0.10		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	0.30		0.10	% by Weight

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMS-SD43			**Sample ID: 1109055-16**	
Miscellaneous				
% Very Fine Sand >.0625 - .125 mm	8.5		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	---	U	0.10	% by Weight
% Silt	66		0.10	% by Weight
% Medium Sand >.25 - .5 mm	1.6		0.10	% by Weight
% Fine Sand >.125 - .25 mm	6.3		0.10	% by Weight
% Clay & Colloids	17		0.10	% by Weight
Mercury CVAA				
Mercury	0.338		0.048	mg/kg dry
Metals ICP				
Silver	---	U	0.43	mg/kg dry
Aluminum	74000		85	mg/kg dry
Arsenic	8.8		0.68	mg/kg dry
Barium	75		8.5	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Calcium	17000		43	mg/kg dry
Cadmium	1.9		0.26	mg/kg dry
Cobalt	---	U	1.7	mg/kg dry
Chromium	430		0.43	mg/kg dry
Copper	11		0.85	mg/kg dry
Iron	210000		85	mg/kg dry
Potassium	450		43	mg/kg dry
Magnesium	690		43	mg/kg dry
Manganese	42		0.43	mg/kg dry
Sodium	30000		85	mg/kg dry
Nickel	9.2		1.7	mg/kg dry
Lead	34		0.68	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Selenium	---	U	1.7	mg/kg dry
Thallium	---	U	1.7	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMS-SD43			**Sample ID: 1109055-16**	
Metals ICP				
Vanadium	620		1.7	mg/kg dry
Zinc	10		1.7	mg/kg dry
Sanitary				
Organic Carbon, Total	30000			mg/kg
Field ID: RMS-SD45			**Sample ID: 1109055-17**	
Miscellaneous				
% Gravel & Larger >2.0 mm	1.1		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	0.70		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	12		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	0.60		0.10	% by Weight
% Silt	63		0.10	% by Weight
% Medium Sand >.25 - .5 mm	2.3		0.10	% by Weight
% Fine Sand >.125 - .25 mm	6.1		0.10	% by Weight
% Clay & Colloids	14		0.10	% by Weight
Mercury CVAA				
Mercury	0.264		0.042	mg/kg dry
Metals ICP				
Silver	---	U	0.52	mg/kg dry
Aluminum	71000		10	mg/kg dry
Arsenic	9.1		0.84	mg/kg dry
Barium	86		10	mg/kg dry
Beryllium	---	U	0.31	mg/kg dry
Calcium	38000		52	mg/kg dry
Cadmium	1.9		0.31	mg/kg dry
Cobalt	---	U	2.1	mg/kg dry
Chromium	410		0.52	mg/kg dry
Copper	15		1.0	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMS-SD45			**Sample ID: 1109055-17**	
Metals ICP				
Iron	250000		100	mg/kg dry
Potassium	620		52	mg/kg dry
Magnesium	1600		52	mg/kg dry
Manganese	85		0.52	mg/kg dry
Sodium	27000		100	mg/kg dry
Nickel	11		2.1	mg/kg dry
Lead	37		0.84	mg/kg dry
Antimony	---	U	2.1	mg/kg dry
Selenium	---	U	2.1	mg/kg dry
Thallium	---	U	2.1	mg/kg dry
Vanadium	730		2.1	mg/kg dry
Zinc	21		2.1	mg/kg dry
Sanitary				
Organic Carbon, Total	32000			mg/kg
Field ID: RMS-SD46			**Sample ID: 1109055-18**	
Miscellaneous				
% Gravel & Larger >2.0 mm	9.4		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	4.3		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	5.3		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	2.5		0.10	% by Weight
% Silt	45		0.10	% by Weight
% Medium Sand >.25 - .5 mm	5.5		0.10	% by Weight
% Fine Sand >.125 - .25 mm	5.6		0.10	% by Weight
% Clay & Colloids	22		0.10	% by Weight
Mercury CVAA				
Mercury	0.237		0.055	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMS-SD46			**Sample ID: 1109055-18**	
Metals ICP				
Silver	---	U	0.53	mg/kg dry
Aluminum	66000		11	mg/kg dry
Arsenic	7.0		0.84	mg/kg dry
Barium	150		11	mg/kg dry
Beryllium	---	U	0.32	mg/kg dry
Calcium	17000		53	mg/kg dry
Cadmium	0.68		0.32	mg/kg dry
Cobalt	---	U	2.1	mg/kg dry
Chromium	360		0.53	mg/kg dry
Copper	15		1.1	mg/kg dry
Iron	120000		110	mg/kg dry
Potassium	730		53	mg/kg dry
Magnesium	2000		53	mg/kg dry
Manganese	52		0.53	mg/kg dry
Sodium	30000		110	mg/kg dry
Nickel	9.7		2.1	mg/kg dry
Lead	23		0.84	mg/kg dry
Antimony	---	U	2.1	mg/kg dry
Selenium	---	U	2.1	mg/kg dry
Thallium	---	U	2.1	mg/kg dry
Vanadium	370		2.1	mg/kg dry
Zinc	35		2.1	mg/kg dry
Sanitary				
Organic Carbon, Total	24000			mg/kg
Field ID: RMS-SD47			**Sample ID: 1109055-19**	
Miscellaneous				
% Gravel & Larger >2.0 mm	0.40		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	3.8		0.10	% by Weight

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMS-SD47			**Sample ID: 1109055-19**	
Miscellaneous				
% Very Fine Sand >.0625 - .125 mm	11		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	0.60		0.10	% by Weight
% Silt	23		0.10	% by Weight
% Medium Sand >.25 - .5 mm	21		0.10	% by Weight
% Fine Sand >.125 - .25 mm	32		0.10	% by Weight
% Clay & Colloids	8.1		0.10	% by Weight
Mercury CVAA				
Mercury	0.140		0.044	mg/kg dry
Metals ICP				
Silver	---	U	0.44	mg/kg dry
Aluminum	38000		8.7	mg/kg dry
Arsenic	15		0.70	mg/kg dry
Barium	73		8.7	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Calcium	27000		44	mg/kg dry
Cadmium	4.4		0.26	mg/kg dry
Cobalt	2.8		1.7	mg/kg dry
Chromium	360		0.44	mg/kg dry
Copper	14		0.87	mg/kg dry
Iron	340000		87	mg/kg dry
Potassium	220		44	mg/kg dry
Magnesium	1100		44	mg/kg dry
Manganese	310		0.44	mg/kg dry
Sodium	16000		87	mg/kg dry
Nickel	12		1.7	mg/kg dry
Lead	44		0.70	mg/kg dry
Antimony	---	U	1.7	mg/kg dry
Selenium	2.7		1.7	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMS-SD47			**Sample ID: 1109055-19**	
Metals ICP				
Thallium	---	U	1.7	mg/kg dry
Vanadium	1100		1.7	mg/kg dry
Zinc	19		1.7	mg/kg dry
Sanitary				
Organic Carbon, Total	3600			mg/kg
Field ID: UCP-SD34			**Sample ID: 1109055-20**	
Miscellaneous				
% Gravel & Larger >2.0 mm	13		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	18		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	7.2		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	15		0.10	% by Weight
% Silt	15		0.10	% by Weight
% Medium Sand >.25 - .5 mm	14		0.10	% by Weight
% Fine Sand >.125 - .25 mm	8.9		0.10	% by Weight
% Clay & Colloids	9.5		0.10	% by Weight
Mercury CVAA				
Mercury	0.079		0.060	mg/kg dry
Metals ICP				
Silver	---	U	0.56	mg/kg dry
Aluminum	71000		11	mg/kg dry
Arsenic	26		0.89	mg/kg dry
Barium	24		11	mg/kg dry
Beryllium	---	U	0.33	mg/kg dry
Calcium	39000		56	mg/kg dry
Cadmium	---	U	0.33	mg/kg dry
Cobalt	3.5		2.2	mg/kg dry
Chromium	230		0.56	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SD34			**Sample ID: 1109055-20**	
Metals ICP				
Copper	27		1.1	mg/kg dry
Iron	44000		11	mg/kg dry
Potassium	1500		56	mg/kg dry
Magnesium	87000		56	mg/kg dry
Manganese	240		0.56	mg/kg dry
Sodium	13000		110	mg/kg dry
Nickel	9.0		2.2	mg/kg dry
Lead	12		0.89	mg/kg dry
Antimony	---	U	2.2	mg/kg dry
Selenium	---	U	2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	340		2.2	mg/kg dry
Zinc	34		2.2	mg/kg dry
Sanitary				
Organic Carbon, Total	9100			mg/kg
Field ID: UCP-SD35			**Sample ID: 1109055-21**	
Miscellaneous				
% Gravel & Larger >2.0 mm	3.1		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	22		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	5.0		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	7.5		0.10	% by Weight
% Silt	9.1		0.10	% by Weight
% Medium Sand >.25 - .5 mm	29		0.10	% by Weight
% Fine Sand >.125 - .25 mm	13		0.10	% by Weight
% Clay & Colloids	11		0.10	% by Weight
Mercury CVAA				
Mercury	0.110		0.069	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SD35			**Sample ID: 1109055-21**	
Metals ICP				
Silver	---	U	0.72	mg/kg dry
Aluminum	77000		14	mg/kg dry
Arsenic	26		1.2	mg/kg dry
Barium	22		14	mg/kg dry
Beryllium	---	U	0.43	mg/kg dry
Calcium	62000		72	mg/kg dry
Cadmium	---	U	0.43	mg/kg dry
Cobalt	---	U	2.9	mg/kg dry
Chromium	390		0.72	mg/kg dry
Copper	27		1.4	mg/kg dry
Iron	41000		14	mg/kg dry
Potassium	1900		72	mg/kg dry
Magnesium	100000		72	mg/kg dry
Manganese	120		0.72	mg/kg dry
Sodium	23000		140	mg/kg dry
Nickel	9.6		2.9	mg/kg dry
Lead	10		1.2	mg/kg dry
Antimony	---	U	2.9	mg/kg dry
Selenium	---	U	2.9	mg/kg dry
Thallium	---	U	2.9	mg/kg dry
Vanadium	450		2.9	mg/kg dry
Zinc	45		2.9	mg/kg dry
Sanitary				
Organic Carbon, Total	16000			mg/kg
Field ID: UCP-SD37			**Sample ID: 1109055-22**	
Miscellaneous				
% Gravel & Larger >2.0 mm	2.0		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	4.8		0.10	% by Weight

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SD37			**Sample ID: 1109055-22**	
Miscellaneous				
% Very Fine Sand >.0625 - .125 mm	4.8		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	2.0		0.10	% by Weight
% Silt	39		0.10	% by Weight
% Medium Sand >.25 - .5 mm	6.8		0.10	% by Weight
% Fine Sand >.125 - .25 mm	6.5		0.10	% by Weight
% Clay & Colloids	34		0.10	% by Weight
Mercury CVAA				
Mercury	0.183		0.071	mg/kg dry
Metals ICP				
Silver	---	U	0.63	mg/kg dry
Aluminum	65000		13	mg/kg dry
Arsenic	15		1.0	mg/kg dry
Barium	52		13	mg/kg dry
Beryllium	---	U	0.38	mg/kg dry
Calcium	53000		63	mg/kg dry
Cadmium	0.50		0.38	mg/kg dry
Cobalt	3.3		2.5	mg/kg dry
Chromium	550		0.63	mg/kg dry
Copper	26		1.3	mg/kg dry
Iron	97000		130	mg/kg dry
Potassium	2600		63	mg/kg dry
Magnesium	40000		63	mg/kg dry
Manganese	130		0.63	mg/kg dry
Sodium	36000		130	mg/kg dry
Nickel	10		2.5	mg/kg dry
Lead	21		1.0	mg/kg dry
Antimony	---	U	2.5	mg/kg dry
Selenium	---	U	2.5	mg/kg dry
Thallium	---	U	2.5	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SD37			**Sample ID: 1109055-22**	
Metals ICP				
Vanadium	420		2.5	mg/kg dry
Zinc	41		2.5	mg/kg dry
Sanitary				
Organic Carbon, Total	11000			mg/kg
Field ID: UCP-SD39			**Sample ID: 1109055-23**	
Miscellaneous				
% Gravel & Larger >2.0 mm	0.10		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	1.4		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	3.2		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	1.0		0.10	% by Weight
% Silt	62		0.10	% by Weight
% Medium Sand >.25 - .5 mm	4.0		0.10	% by Weight
% Fine Sand >.125 - .25 mm	5.4		0.10	% by Weight
% Clay & Colloids	23		0.10	% by Weight
Mercury CVAA				
Mercury	0.237		0.062	mg/kg dry
Metals ICP				
Silver	---	U	0.55	mg/kg dry
Aluminum	77000		11	mg/kg dry
Arsenic	11		0.88	mg/kg dry
Barium	80		11	mg/kg dry
Beryllium	---	U	0.33	mg/kg dry
Calcium	24000		55	mg/kg dry
Cadmium	0.97		0.33	mg/kg dry
Cobalt	---	U	2.2	mg/kg dry
Chromium	490		0.55	mg/kg dry
Copper	16		1.1	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SD39			**Sample ID: 1109055-23**	
Metals ICP				
Iron	170000		110	mg/kg dry
Potassium	2100		55	mg/kg dry
Magnesium	7700		55	mg/kg dry
Manganese	93		0.55	mg/kg dry
Sodium	53000		110	mg/kg dry
Nickel	11		2.2	mg/kg dry
Lead	32		0.88	mg/kg dry
Antimony	---	U	2.2	mg/kg dry
Selenium	---	U	2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	540		2.2	mg/kg dry
Zinc	34		2.2	mg/kg dry
Sanitary				
Organic Carbon, Total	14000			mg/kg
Field ID: UCP-SD40			**Sample ID: 1109055-24**	
Miscellaneous				
% Gravel & Larger >2.0 mm	---	U	0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	0.30		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	11		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	---	U	0.10	% by Weight
% Silt	56		0.10	% by Weight
% Medium Sand >.25 - .5 mm	1.7		0.10	% by Weight
% Fine Sand >.125 - .25 mm	6.3		0.10	% by Weight
% Clay & Colloids	25		0.10	% by Weight
Mercury CVAA				
Mercury	0.314		0.054	mg/kg dry
Metals ICP				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SD40			**Sample ID: 1109055-24**	
Metals ICP				
Silver	---	U	0.57	mg/kg dry
Aluminum	69000		11	mg/kg dry
Arsenic	9.0		0.91	mg/kg dry
Barium	78		11	mg/kg dry
Beryllium	---	U	0.34	mg/kg dry
Calcium	22000		57	mg/kg dry
Cadmium	1.3		0.34	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	480		0.57	mg/kg dry
Copper	13		1.1	mg/kg dry
Iron	200000		110	mg/kg dry
Potassium	1500		57	mg/kg dry
Magnesium	4600		57	mg/kg dry
Manganese	64		0.57	mg/kg dry
Sodium	41000		110	mg/kg dry
Nickel	11		2.3	mg/kg dry
Lead	38		0.91	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	640		2.3	mg/kg dry
Zinc	31		2.3	mg/kg dry
Sanitary				
Organic Carbon, Total	15000			mg/kg
Field ID: UCP-SD41			**Sample ID: 1109055-25**	
Miscellaneous				
% Gravel & Larger >2.0 mm	0.90		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	2.0		0.10	% by Weight

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SD41			**Sample ID: 1109055-25**	
Miscellaneous				
% Very Fine Sand >.0625 - .125 mm	2.4		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	1.0		0.10	% by Weight
% Silt	59		0.10	% by Weight
% Medium Sand >.25 - .5 mm	2.8		0.10	% by Weight
% Fine Sand >.125 - .25 mm	2.6		0.10	% by Weight
% Clay & Colloids	29		0.10	% by Weight
Mercury CVAA				
Mercury	0.271		0.044	mg/kg dry
Metals ICP				
Silver	---	U	0.53	mg/kg dry
Aluminum	85000		11	mg/kg dry
Arsenic	12		0.84	mg/kg dry
Barium	74		11	mg/kg dry
Beryllium	---	U	0.32	mg/kg dry
Calcium	29000		53	mg/kg dry
Cadmium	1.1		0.32	mg/kg dry
Cobalt	---	U	2.1	mg/kg dry
Chromium	480		0.53	mg/kg dry
Copper	13		1.1	mg/kg dry
Iron	170000		110	mg/kg dry
Potassium	850		53	mg/kg dry
Magnesium	3600		53	mg/kg dry
Manganese	71		0.53	mg/kg dry
Sodium	42000		110	mg/kg dry
Nickel	10		2.1	mg/kg dry
Lead	26		0.84	mg/kg dry
Antimony	---	U	2.1	mg/kg dry
Selenium	---	U	2.1	mg/kg dry
Thallium	---	U	2.1	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SD41			**Sample ID: 1109055-25**	
Metals ICP				
Vanadium	540		2.1	mg/kg dry
Zinc	39		2.1	mg/kg dry
Sanitary				
Organic Carbon, Total	18000			mg/kg
Field ID: WES-SD22			**Sample ID: 1109055-26**	
Miscellaneous				
% Gravel & Larger >2.0 mm	21		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	7.1		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	3.6		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	5.9		0.10	% by Weight
% Silt	33		0.10	% by Weight
% Medium Sand >.25 - .5 mm	6.7		0.10	% by Weight
% Fine Sand >.125 - .25 mm	5.5		0.10	% by Weight
% Clay & Colloids	17		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.052	mg/kg dry
Metals ICP				
Silver	---	U	0.52	mg/kg dry
Aluminum	41000		10	mg/kg dry
Arsenic	8.1		0.83	mg/kg dry
Barium	89		10	mg/kg dry
Beryllium	---	U	0.31	mg/kg dry
Calcium	160000		520	mg/kg dry
Cadmium	---	U	0.31	mg/kg dry
Cobalt	3.7		2.1	mg/kg dry
Chromium	160		0.52	mg/kg dry
Copper	21		1.0	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: WES-SD22			**Sample ID: 1109055-26**	
Metals ICP				
Potassium	2600		52	mg/kg dry
Magnesium	34000		52	mg/kg dry
Manganese	340		0.52	mg/kg dry
Sodium	26000		100	mg/kg dry
Nickel	7.5		2.1	mg/kg dry
Lead	12		0.83	mg/kg dry
Antimony	---	U	2.1	mg/kg dry
Selenium	---	U	2.1	mg/kg dry
Thallium	---	U	2.1	mg/kg dry
Vanadium	210		2.1	mg/kg dry
Zinc	23		2.1	mg/kg dry
Iron	55000		100	mg/kg dry
Sanitary				
Organic Carbon, Total	24000			mg/kg
Field ID: WES-SD23			**Sample ID: 1109055-27**	
Miscellaneous				
% Gravel & Larger >2.0 mm	10		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	8.6		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	4.4		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	5.3		0.10	% by Weight
% Silt	36		0.10	% by Weight
% Medium Sand >.25 - .5 mm	7.7		0.10	% by Weight
% Fine Sand >.125 - .25 mm	6.2		0.10	% by Weight
% Clay & Colloids	21		0.10	% by Weight
Mercury CVAA				
Mercury	0.049		0.043	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: WES-SD23			**Sample ID: 1109055-27**	
Metals ICP				
Silver	---	U	0.48	mg/kg dry
Aluminum	31000		9.6	mg/kg dry
Arsenic	6.8		0.77	mg/kg dry
Barium	75		9.6	mg/kg dry
Beryllium	---	U	0.29	mg/kg dry
Calcium	180000		480	mg/kg dry
Cadmium	---	U	0.29	mg/kg dry
Cobalt	3.4		1.9	mg/kg dry
Chromium	110		0.48	mg/kg dry
Copper	20		0.96	mg/kg dry
Iron	32000		9.6	mg/kg dry
Potassium	2100		48	mg/kg dry
Magnesium	33000		48	mg/kg dry
Manganese	370		0.48	mg/kg dry
Sodium	20000		96	mg/kg dry
Nickel	6.6		1.9	mg/kg dry
Lead	8.5		0.77	mg/kg dry
Antimony	---	U	1.9	mg/kg dry
Selenium	---	U	1.9	mg/kg dry
Thallium	---	U	1.9	mg/kg dry
Vanadium	170		1.9	mg/kg dry
Zinc	23		1.9	mg/kg dry
Sanitary				
Organic Carbon, Total	29000			mg/kg
Field ID: WES-SD24			**Sample ID: 1109055-28**	
Miscellaneous				
% Gravel & Larger >2.0 mm	20		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	5.6		0.10	% by Weight

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: WES-SD24			**Sample ID: 1109055-28**	
Miscellaneous				
% Very Fine Sand >.0625 - .125 mm	6.5		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	6.8		0.10	% by Weight
% Silt	30		0.10	% by Weight
% Medium Sand >.25 - .5 mm	6.1		0.10	% by Weight
% Fine Sand >.125 - .25 mm	7.9		0.10	% by Weight
% Clay & Colloids	17		0.10	% by Weight
Mercury CVAA				
Mercury	---	U	0.052	mg/kg dry
Metals ICP				
Silver	---	U	0.57	mg/kg dry
Aluminum	25000		11	mg/kg dry
Arsenic	4.0		0.91	mg/kg dry
Barium	110		11	mg/kg dry
Beryllium	---	U	0.34	mg/kg dry
Calcium	87000		57	mg/kg dry
Cadmium	---	U	0.34	mg/kg dry
Cobalt	13		2.3	mg/kg dry
Chromium	33		0.57	mg/kg dry
Copper	60		1.1	mg/kg dry
Iron	26000		11	mg/kg dry
Potassium	3500		57	mg/kg dry
Magnesium	15000		57	mg/kg dry
Manganese	730		0.57	mg/kg dry
Sodium	8100		110	mg/kg dry
Nickel	15		2.3	mg/kg dry
Lead	5.3		0.91	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: WES-SD24			**Sample ID: 1109055-28**	
Metals ICP				
Vanadium	110		2.3	mg/kg dry
Zinc	52		2.3	mg/kg dry
Sanitary				
Organic Carbon, Total	35000			mg/kg
Field ID: BG-SD53			**Sample ID: 1109055-29**	
Miscellaneous				
% Gravel & Larger >2.0 mm	13		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	28		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	2.8		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	26		0.10	% by Weight
% Medium Sand >.25 - .5 mm	14		0.10	% by Weight
% Fine Sand >.125 - .25 mm	13		0.10	% by Weight
%Silt + % Clay/Colloids (%Total Fines)	3.4		0.10	% by Weight
Field ID: BG-SD54			**Sample ID: 1109055-30**	
Miscellaneous				
% Gravel & Larger >2.0 mm	14		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	31		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	1.8		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	16		0.10	% by Weight
% Silt	2.0		0.10	% by Weight
% Medium Sand >.25 - .5 mm	21		0.10	% by Weight
% Fine Sand >.125 - .25 mm	15		0.10	% by Weight
% Clay & Colloids	---	U	0.10	% by Weight
Field ID: BG-SD55			**Sample ID: 1109055-31**	

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-SD55			**Sample ID: 1109055-31**	
Miscellaneous				
% Gravel & Larger >2.0 mm	9.1		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	5.8		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	8.7		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	5.3		0.10	% by Weight
% Silt	28		0.10	% by Weight
% Medium Sand >.25 - .5 mm	9.0		0.10	% by Weight
% Fine Sand >.125 - .25 mm	13		0.10	% by Weight
% Clay & Colloids	21		0.10	% by Weight
Field ID: BG-SD56			**Sample ID: 1109055-32**	
Miscellaneous				
% Gravel & Larger >2.0 mm	8.1		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	10		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	8.2		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	5.1		0.10	% by Weight
% Silt	22		0.10	% by Weight
% Medium Sand >.25 - .5 mm	16		0.10	% by Weight
% Fine Sand >.125 - .25 mm	14		0.10	% by Weight
% Clay & Colloids	16		0.10	% by Weight
Field ID: LCP-SD31			**Sample ID: 1109055-33**	
Miscellaneous				
% Gravel & Larger >2.0 mm	3.7	J	0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	27	J	0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	10	J	0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	11	J	0.10	% by Weight
% Medium Sand >.25 - .5 mm	27	J	0.10	% by Weight
% Fine Sand >.125 - .25 mm	19	J	0.10	% by Weight

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SD31			**Sample ID: 1109055-33**	
Miscellaneous				
%Silt + % Clay/Colloids (%Total Fines)	2.7	J	0.10	% by Weight
Mercury CVAA				
Mercury	---	U J	0.136	mg/kg dry
Metals ICP				
Silver	---	U J	1.4	mg/kg dry
Aluminum	95000	J	29	mg/kg dry
Arsenic	22	J	2.3	mg/kg dry
Barium	---	U J	29	mg/kg dry
Beryllium	---	U J	0.87	mg/kg dry
Calcium	24000	J	140	mg/kg dry
Cadmium	---	U J	0.87	mg/kg dry
Cobalt	---	U J	5.8	mg/kg dry
Chromium	160	J	1.4	mg/kg dry
Copper	27	J	2.9	mg/kg dry
Potassium	1600	J	140	mg/kg dry
Magnesium	110000	J	140	mg/kg dry
Manganese	90	J	1.4	mg/kg dry
Sodium	28000	J	290	mg/kg dry
Nickel	10	J	5.8	mg/kg dry
Lead	5.1	J	2.3	mg/kg dry
Antimony	---	U J	5.8	mg/kg dry
Selenium	---	U J	5.8	mg/kg dry
Thallium	---	U J	5.8	mg/kg dry
Vanadium	590	J	5.8	mg/kg dry
Zinc	55	J	5.8	mg/kg dry
Iron	15000	J	29	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SD31			**Sample ID: 1109055-33**	
Sanitary				
Organic Carbon, Total	32000	J		mg/kg
Field ID: LCP-SD32			**Sample ID: 1109055-34**	
Miscellaneous				
% Gravel & Larger >2.0 mm	9.2		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	7.2		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	1.7		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	28		0.10	% by Weight
% Silt	24		0.10	% by Weight
% Medium Sand >.25 - .5 mm	4.1		0.10	% by Weight
% Fine Sand >.125 - .25 mm	2.8		0.10	% by Weight
% Clay & Colloids	24		0.10	% by Weight
Mercury CVAA				
Mercury	---	U J	0.199	mg/kg dry
Metals ICP				
Silver	---	U J	2.0	mg/kg dry
Aluminum	37000	J	39	mg/kg dry
Arsenic	34	J	3.1	mg/kg dry
Barium	45	J	39	mg/kg dry
Beryllium	---	U J	1.2	mg/kg dry
Calcium	36000	J	200	mg/kg dry
Cadmium	---	U J	1.2	mg/kg dry
Cobalt	---	U J	7.8	mg/kg dry
Chromium	570	J	2.0	mg/kg dry
Copper	31	J	3.9	mg/kg dry
Iron	41000	J	39	mg/kg dry
Potassium	3600	J	200	mg/kg dry
Magnesium	40000	J	200	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SD32			**Sample ID: 1109055-34**	
Metals ICP				
Manganese	230	J	2.0	mg/kg dry
Sodium	56000	J	390	mg/kg dry
Nickel	14	J	7.8	mg/kg dry
Lead	17	J	3.1	mg/kg dry
Antimony	---	U J	7.8	mg/kg dry
Selenium	---	U J	7.8	mg/kg dry
Thallium	---	U J	7.8	mg/kg dry
Vanadium	500	J	7.8	mg/kg dry
Zinc	190	J	7.8	mg/kg dry
Sanitary				
Organic Carbon, Total	92000	J		mg/kg
Field ID: LCP-SD33			**Sample ID: 1109055-35**	
Miscellaneous				
% Gravel & Larger >2.0 mm	12	J	0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	22	J	0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	2.8	J	0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	36	J	0.10	% by Weight
% Medium Sand >.25 - .5 mm	11	J	0.10	% by Weight
% Fine Sand >.125 - .25 mm	6.6	J	0.10	% by Weight
%Silt + % Clay/Colloids (%Total Fines)	10	J	0.10	% by Weight
Mercury CVAA				
Mercury	---	U J	0.135	mg/kg dry
Metals ICP				
Silver	---	U J	1.4	mg/kg dry
Aluminum	91000	J	27	mg/kg dry
Arsenic	21	J	2.2	mg/kg dry
Barium	---	U J	27	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SD33			**Sample ID: 1109055-35**	
Metals ICP				
Beryllium	---	U J	0.82	mg/kg dry
Calcium	20000	J	140	mg/kg dry
Cadmium	---	U J	0.82	mg/kg dry
Cobalt	---	U J	5.5	mg/kg dry
Chromium	78	J	1.4	mg/kg dry
Copper	18	J	2.7	mg/kg dry
Potassium	1700	J	140	mg/kg dry
Magnesium	140000	J	140	mg/kg dry
Manganese	150	J	1.4	mg/kg dry
Sodium	34000	J	270	mg/kg dry
Nickel	5.5	J	5.5	mg/kg dry
Lead	---	U J	2.2	mg/kg dry
Antimony	---	U J	5.5	mg/kg dry
Selenium	---	U J	5.5	mg/kg dry
Thallium	---	U J	5.5	mg/kg dry
Vanadium	320	J	5.5	mg/kg dry
Zinc	33	J	5.5	mg/kg dry
Iron	13000	J	27	mg/kg dry
Sanitary				
Organic Carbon, Total	12000	J		mg/kg
Field ID: MAN-SD17			**Sample ID: 1109055-36**	
Miscellaneous				
% Gravel & Larger >2.0 mm	37		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	9.5		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	4.1		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	15		0.10	% by Weight
% Silt	9.9		0.10	% by Weight
% Medium Sand >.25 - .5 mm	6.3		0.10	% by Weight

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD17			**Sample ID: 1109055-36**	
Miscellaneous				
% Fine Sand >.125 - .25 mm	3.9		0.10	% by Weight
% Clay & Colloids	14		0.10	% by Weight
Mercury CVAA				
Mercury	---	U J	0.057	mg/kg dry
Metals ICP				
Silver	---	U J	0.54	mg/kg dry
Aluminum	9700	J	11	mg/kg dry
Arsenic	5.3	J	0.86	mg/kg dry
Barium	22	J	11	mg/kg dry
Beryllium	---	U J	0.32	mg/kg dry
Calcium	300000	J	540	mg/kg dry
Cadmium	---	U J	0.32	mg/kg dry
Cobalt	---	U J	2.2	mg/kg dry
Chromium	28	J	0.54	mg/kg dry
Copper	7.2	J	1.1	mg/kg dry
Iron	6900	J	11	mg/kg dry
Potassium	1400	J	54	mg/kg dry
Magnesium	12000	J	54	mg/kg dry
Manganese	230	J	0.54	mg/kg dry
Sodium	26000	J	110	mg/kg dry
Nickel	2.2	J	2.2	mg/kg dry
Lead	4.3	J	0.86	mg/kg dry
Antimony	---	U J	2.2	mg/kg dry
Selenium	---	U J	2.2	mg/kg dry
Thallium	---	U J	2.2	mg/kg dry
Vanadium	69	J	2.2	mg/kg dry
Zinc	10	J	2.2	mg/kg dry
Iron	7400	J	11	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD17			**Sample ID: 1109055-36**	
Sanitary				
Organic Carbon, Total	82000	J		mg/kg
Field ID: MAN-SD20			**Sample ID: 1109055-37**	
Miscellaneous				
% Gravel & Larger >2.0 mm	2.5		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	4.7		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	2.8		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	12		0.10	% by Weight
% Silt	51		0.10	% by Weight
% Medium Sand >.25 - .5 mm	3.5		0.10	% by Weight
% Fine Sand >.125 - .25 mm	3.3		0.10	% by Weight
% Clay & Colloids	20		0.10	% by Weight
Mercury CVAA				
Mercury	---	U J	0.129	mg/kg dry
Metals ICP				
Silver	---	U J	1.2	mg/kg dry
Aluminum	34000	J	25	mg/kg dry
Arsenic	13	J	2.0	mg/kg dry
Barium	46	J	25	mg/kg dry
Beryllium	---	U J	0.74	mg/kg dry
Calcium	59000	J	120	mg/kg dry
Cadmium	---	U J	0.74	mg/kg dry
Cobalt	7.0	J	4.9	mg/kg dry
Chromium	140	J	1.2	mg/kg dry
Copper	45	J	4.9	mg/kg dry
Iron	50000	J	12	mg/kg dry
Potassium	5600	J	120	mg/kg dry
Magnesium	14000	J	120	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD20			**Sample ID: 1109055-37**	
Metals ICP				
Manganese	470	J	1.2	mg/kg dry
Sodium	48000	J	250	mg/kg dry
Nickel	11	J	4.9	mg/kg dry
Lead	18	J	2.0	mg/kg dry
Antimony	---	U J	4.9	mg/kg dry
Selenium	---	U J	4.9	mg/kg dry
Thallium	---	U J	4.9	mg/kg dry
Vanadium	210	J	4.9	mg/kg dry
Zinc	62	J	4.9	mg/kg dry
Sanitary				
Organic Carbon, Total	78000	J		mg/kg
Field ID: MAN-SD21			**Sample ID: 1109055-38**	
Miscellaneous				
% Gravel & Larger >2.0 mm	8.1		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	3.3		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	6.0		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	4.5		0.10	% by Weight
% Silt	30		0.10	% by Weight
% Medium Sand >.25 - .5 mm	4.4		0.10	% by Weight
% Fine Sand >.125 - .25 mm	7.0		0.10	% by Weight
% Clay & Colloids	37		0.10	% by Weight
Mercury CVAA				
Mercury	---	U J	0.048	mg/kg dry
Metals ICP				
Silver	---	U J	0.56	mg/kg dry
Aluminum	22000	J	11	mg/kg dry
Arsenic	2.8	J	0.89	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SD21			**Sample ID: 1109055-38**	
Metals ICP				
Barium	170	J	11	mg/kg dry
Beryllium	---	U J	0.34	mg/kg dry
Calcium	120000	J	560	mg/kg dry
Cadmium	---	U J	0.34	mg/kg dry
Cobalt	13	J	2.2	mg/kg dry
Chromium	27	J	0.56	mg/kg dry
Copper	60	J	2.2	mg/kg dry
Iron	27000	J	5.6	mg/kg dry
Potassium	3900	J	56	mg/kg dry
Magnesium	10000	J	56	mg/kg dry
Manganese	780	J	0.56	mg/kg dry
Sodium	5400	J	110	mg/kg dry
Nickel	12	J	2.2	mg/kg dry
Lead	4.0	J	0.89	mg/kg dry
Antimony	---	U J	2.2	mg/kg dry
Selenium	---	U J	2.2	mg/kg dry
Thallium	---	U J	2.2	mg/kg dry
Vanadium	100	J	2.2	mg/kg dry
Zinc	73	J	2.2	mg/kg dry
Sanitary				
Organic Carbon, Total	48000	J		mg/kg
Field ID: UCP-SD36			**Sample ID: 1109055-39**	
Miscellaneous				
% Gravel & Larger >2.0 mm	9.8		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	4.4		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	8.8		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	2.7		0.10	% by Weight
% Silt	40		0.10	% by Weight

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SD36			**Sample ID: 1109055-39**	
Miscellaneous				
% Medium Sand >.25 - .5 mm	8.3		0.10	% by Weight
% Fine Sand >.125 - .25 mm	12		0.10	% by Weight
% Clay & Colloids	14		0.10	% by Weight
Field ID: UCP-SD38			**Sample ID: 1109055-40**	
Miscellaneous				
% Gravel & Larger >2.0 mm	---	U	0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	1.1		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	2.7		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	0.90		0.10	% by Weight
% Silt	52		0.10	% by Weight
% Medium Sand >.25 - .5 mm	2.6		0.10	% by Weight
% Fine Sand >.125 - .25 mm	5.2		0.10	% by Weight
% Clay & Colloids	35		0.10	% by Weight
Field ID: WES-SD25			**Sample ID: 1109055-41**	
Miscellaneous				
% Gravel & Larger >2.0 mm	3.8		0.10	% by Weight
% Coarse Sand >0.42 - 2.0 mm	20		0.10	% by Weight
% Very Fine Sand >.0625 - .125 mm	6.0		0.10	% by Weight
% Very Coarse Sand >1 - 2 mm	7.4		0.10	% by Weight
% Silt	12		0.10	% by Weight
% Medium Sand >.25 - .5 mm	25		0.10	% by Weight
% Fine Sand >.125 - .25 mm	16		0.10	% by Weight
% Clay & Colloids	10		0.10	% by Weight
Field ID: ADP-SW48			**Sample ID: 1109055-42**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-SW48			**Sample ID: 1109055-42**	
Sanitary				
Chloride	4200		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	150		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	14000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	130000		500	ug/L
Magnesium	48000		500	ug/L
Manganese	37		5.0	ug/L
Sodium	4200000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	190		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	2500		100	ug/L
Iron	1700		50	ug/L
Field ID: ADP-SW50			**Sample ID: 1109055-43**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-SW50			**Sample ID: 1109055-43**	
Sanitary				
Chloride	4200		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	160		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	8700		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	130000		500	ug/L
Magnesium	44000		500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	4200000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	190		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	150		100	ug/L
Iron	---	U	50	ug/L
Field ID: ADP-SW51			**Sample ID: 1109055-44**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-SW51			**Sample ID: 1109055-44**	
Sanitary				
Chloride	4300		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	160		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	8900		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	130000		500	ug/L
Magnesium	44000		500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	4300000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	210		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	190		100	ug/L
Iron	54		50	ug/L
Field ID: LCP-SW26			**Sample ID: 1109055-45**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SW26			**Sample ID: 1109055-45**	
Sanitary				
Chloride	12000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	19		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	260000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	360000		500	ug/L
Magnesium	1000000		500	ug/L
Manganese	23		5.0	ug/L
Sodium	7800000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	130		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: LCP-SW27			**Sample ID: 1109055-46**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SW27			**Sample ID: 1109055-46**	
Sanitary				
Chloride	12000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	21		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	280000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	17		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	380000		500	ug/L
Magnesium	1000000		500	ug/L
Manganese	59		5.0	ug/L
Sodium	7900000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	130		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	2900		100	ug/L
Iron	700		50	ug/L
Field ID: LCP-SW28			**Sample ID: 1109055-47**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SW28			**Sample ID: 1109055-47**	
Sanitary				
Chloride	13000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	20		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	270000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	390000		500	ug/L
Magnesium	1100000		500	ug/L
Manganese	25		5.0	ug/L
Sodium	8200000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	140		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	100		100	ug/L
Iron	---	U	50	ug/L
Field ID: LCP-SW29			**Sample ID: 1109055-48**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SW29			**Sample ID: 1109055-48**	
Sanitary				
Chloride	13000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	20		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	270000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	410000		500	ug/L
Magnesium	1100000		500	ug/L
Manganese	23		5.0	ug/L
Sodium	8600000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	130		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	630		100	ug/L
Iron	120		50	ug/L
Field ID: LCP-SW30			**Sample ID: 1109055-49**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SW30			**Sample ID: 1109055-49**	
Sanitary				
Chloride	3000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	220		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	24000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	43		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	97000		500	ug/L
Magnesium	19000		500	ug/L
Manganese	44		5.0	ug/L
Sodium	3800000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	25		20	ug/L
Thallium	---	U	20	ug/L
Vanadium	2200		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	5900		100	ug/L
Iron	2600		50	ug/L
Field ID: LCP-SW31			**Sample ID: 1109055-50**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SW31			**Sample ID: 1109055-50**	
Sanitary				
Chloride	13000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	27		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	290000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	130		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	420000		500	ug/L
Magnesium	1100000		500	ug/L
Manganese	79		5.0	ug/L
Sodium	8900000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	240		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	8000		100	ug/L
Iron	2000		50	ug/L
Field ID: LCP-SW32			**Sample ID: 1109055-51**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SW32			**Sample ID: 1109055-51**	
Sanitary				
Chloride	12000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	34		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	280000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	240		5.0	ug/L
Copper	12		10	ug/L
Potassium	380000		500	ug/L
Magnesium	1000000		500	ug/L
Manganese	310		5.0	ug/L
Sodium	7900000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	310		20	ug/L
Zinc	41		20	ug/L
Aluminum	15000		100	ug/L
Iron	8700		50	ug/L
Field ID: LCP-SW33			**Sample ID: 1109055-52**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: LCP-SW33			**Sample ID: 1109055-52**	
Sanitary				
Chloride	12000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	32		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	310000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	180		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	430000		500	ug/L
Magnesium	1200000		500	ug/L
Manganese	280		5.0	ug/L
Sodium	9300000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	310		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	14000		100	ug/L
Iron	6900		50	ug/L
Field ID: MAN-SW17			**Sample ID: 1109055-53**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW17			**Sample ID: 1109055-53**	
Sanitary				
Chloride	18000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	30		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	340000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	9.0		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	550000		500	ug/L
Magnesium	1400000		500	ug/L
Manganese	950		5.0	ug/L
Sodium	11000000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	31		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	3600		100	ug/L
Iron	2400		50	ug/L
Field ID: MAN-SW20			**Sample ID: 1109055-54**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW20			**Sample ID: 1109055-54**	
Sanitary				
Chloride	16000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	28		8.0	ug/L
Barium	110		100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	430000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	71		5.0	ug/L
Copper	52		10	ug/L
Potassium	470000		500	ug/L
Magnesium	1300000		500	ug/L
Manganese	1900		5.0	ug/L
Sodium	9700000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	16		8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	110		20	ug/L
Zinc	79		20	ug/L
Aluminum	24000		100	ug/L
Iron	28000		50	ug/L
Field ID: MAN-SW21			**Sample ID: 1109055-55**	

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MAN-SW21			**Sample ID: 1109055-55**	
Sanitary				
Chloride	16000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	370000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	500000		500	ug/L
Magnesium	1300000		500	ug/L
Manganese	4900		5.0	ug/L
Sodium	10000000		50000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	150		50	ug/L
Field ID: UCP-SW39			**Sample ID: 1109055-56**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SW39			**Sample ID: 1109055-56**	
Sanitary				
Chloride	18000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U J	5.0	ug/L
Arsenic	16		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	410000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	430		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	510000		1000	ug/L
Magnesium	1400000		13000	ug/L
Manganese	19		5.0	ug/L
Sodium	11000000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	9.8		8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U J	20	ug/L
Thallium	---	U L	20	ug/L
Vanadium	260		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	16000		100	ug/L
Iron	29000		50	ug/L
Field ID: UCP-SW41			**Sample ID: 1109055-57**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SW41			**Sample ID: 1109055-57**	
Sanitary				
Chloride	170		10	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Aluminum	74000		100	ug/L
Arsenic	27		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	15000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	570		5.0	ug/L
Copper	16		10	ug/L
Potassium	7600		1000	ug/L
Magnesium	2100		500	ug/L
Manganese	49		5.0	ug/L
Sodium	480000		1000	ug/L
Nickel	---	U	20	ug/L
Lead	11		8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	1500		20	ug/L
Zinc	38		20	ug/L
Iron	56000		50	ug/L
Field ID: ADP-SW49			**Sample ID: 1109055-58**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-SW49			**Sample ID: 1109055-58**	
Sanitary				
Chloride	4400		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	150		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	8300		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	140000		1000	ug/L
Magnesium	41000		500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	4100000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	190		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	140		100	ug/L
Iron	---	U	50	ug/L
Field ID: RMS-SW45			**Sample ID: 1109055-59**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMS-SW45			**Sample ID: 1109055-59**	
Sanitary				
Chloride	280		10	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Aluminum	94000		100	ug/L
Arsenic	36		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	10000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	1500		5.0	ug/L
Copper	15		10	ug/L
Potassium	11000		1000	ug/L
Magnesium	1700		500	ug/L
Manganese	45		5.0	ug/L
Sodium	640000		1000	ug/L
Nickel	---	U	20	ug/L
Lead	11		8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	55		20	ug/L
Thallium	---	U	20	ug/L
Vanadium	1700		20	ug/L
Zinc	25		20	ug/L
Iron	52000		50	ug/L
Field ID: UCP-SW34			**Sample ID: 1109055-60**	

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SW34			**Sample ID: 1109055-60**	
Sanitary				
Chloride	15000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	10		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	320000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	170		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	480000		1000	ug/L
Magnesium	1100000		13000	ug/L
Manganese	5.8		5.0	ug/L
Sodium	9300000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	190		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	670		100	ug/L
Iron	680		50	ug/L
Field ID: UCP-SW35			**Sample ID: 1109055-61**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SW35			**Sample ID: 1109055-61**	
Sanitary				
Chloride	14000		250	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	23		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	320000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	410		5.0	ug/L
Copper	11		10	ug/L
Potassium	460000		1000	ug/L
Magnesium	1100000		13000	ug/L
Manganese	73		5.0	ug/L
Sodium	9100000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	370		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	21000		100	ug/L
Iron	20000		50	ug/L
Field ID: UCP-SW37			**Sample ID: 1109055-62**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SW37			**Sample ID: 1109055-62**	
Sanitary				
Chloride	14000		1000	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	12	J	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	300000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	780		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	520000		1000	ug/L
Magnesium	1200000		13000	ug/L
Manganese	11		5.0	ug/L
Sodium	10000000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	37		20	ug/L
Thallium	---	U	20	ug/L
Vanadium	260		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	4000		100	ug/L
Iron	7200		50	ug/L
Field ID: UCP-SW40			**Sample ID: 1109055-63**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SW40			**Sample ID: 1109055-63**	
Sanitary				
Chloride	19000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	410000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	150		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	440000		25000	ug/L
Magnesium	1400000		13000	ug/L
Manganese	5.8		5.0	ug/L
Sodium	11000000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	62		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	2200		100	ug/L
Iron	4400		50	ug/L
Field ID: WES-SW22			**Sample ID: 1109055-64**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: WES-SW22			**Sample ID: 1109055-64**	
Sanitary				
Chloride	4700		100	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	110		100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	260000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	340000		1000	ug/L
Magnesium	780000		500	ug/L
Manganese	830		5.0	ug/L
Sodium	6900000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	310		100	ug/L
Iron	470		50	ug/L
Field ID: WES-SW23			**Sample ID: 1109055-65**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: WES-SW23			**Sample ID: 1109055-65**	
Sanitary				
Chloride	11000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	110		100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	260000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	350000		1000	ug/L
Magnesium	780000		500	ug/L
Manganese	860		5.0	ug/L
Sodium	6700000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	350		100	ug/L
Iron	550		50	ug/L
Field ID: WES-SW24			**Sample ID: 1109055-66**	
Sanitary				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: WES-SW24			**Sample ID: 1109055-66**	
Sanitary				
Chloride	9400		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	110		100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	230000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	290000		1000	ug/L
Magnesium	680000		500	ug/L
Manganese	1400		5.0	ug/L
Sodium	5800000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	1200		100	ug/L
Iron	1800		50	ug/L
Field ID: RMA-WST02B			**Sample ID: 1109056-01**	
Mercury CVAA				

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST02B			**Sample ID: 1109056-01**	
Mercury CVAA				
Mercury	0.308		0.059	mg/kg dry
Metals ICP				
Silver	---	U	0.58	mg/kg dry
Aluminum	86000		12	mg/kg dry
Arsenic	8.8		0.93	mg/kg dry
Barium	76		12	mg/kg dry
Beryllium	---	U	0.35	mg/kg dry
Calcium	13000		58	mg/kg dry
Cadmium	0.67		0.35	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	430		0.58	mg/kg dry
Copper	10		2.3	mg/kg dry
Iron	210000		58	mg/kg dry
Potassium	600		58	mg/kg dry
Magnesium	710		58	mg/kg dry
Manganese	31		0.58	mg/kg dry
Sodium	56000		120	mg/kg dry
Nickel	11		2.3	mg/kg dry
Lead	31		0.93	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	660		2.3	mg/kg dry
Zinc	10		2.3	mg/kg dry
Field ID: RMA-WST03B			**Sample ID: 1109056-02**	
Mercury CVAA				
Mercury	0.245		0.049	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST03B			**Sample ID: 1109056-02**	
Metals ICP				
Silver	---	U	0.59	mg/kg dry
Aluminum	85000		12	mg/kg dry
Arsenic	9.7		0.94	mg/kg dry
Barium	76		12	mg/kg dry
Beryllium	0.42		0.35	mg/kg dry
Calcium	11000		59	mg/kg dry
Cadmium	0.69		0.35	mg/kg dry
Cobalt	---	U	2.4	mg/kg dry
Chromium	500		0.59	mg/kg dry
Copper	12		2.4	mg/kg dry
Iron	210000		59	mg/kg dry
Potassium	540		59	mg/kg dry
Magnesium	640		59	mg/kg dry
Manganese	54		0.59	mg/kg dry
Sodium	50000		120	mg/kg dry
Nickel	11		2.4	mg/kg dry
Lead	37		0.94	mg/kg dry
Antimony	---	U	2.4	mg/kg dry
Selenium	---	U	2.4	mg/kg dry
Thallium	---	U	2.4	mg/kg dry
Vanadium	580		2.4	mg/kg dry
Zinc	13		2.4	mg/kg dry
Field ID: RMA-WST04B			**Sample ID: 1109056-03**	
Mercury CVAA				
Mercury	0.461		0.051	mg/kg dry
Metals ICP				
Silver	---	U	0.60	mg/kg dry
Aluminum	92000		12	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST04B			**Sample ID: 1109056-03**	
Metals ICP				
Arsenic	9.2		0.95	mg/kg dry
Barium	67		12	mg/kg dry
Beryllium	---	U	0.36	mg/kg dry
Calcium	8400		60	mg/kg dry
Cadmium	1.4		0.36	mg/kg dry
Cobalt	---	U	2.4	mg/kg dry
Chromium	270		0.60	mg/kg dry
Copper	4.9		2.4	mg/kg dry
Iron	250000		60	mg/kg dry
Potassium	630		60	mg/kg dry
Magnesium	910		60	mg/kg dry
Manganese	14		0.60	mg/kg dry
Sodium	57000		120	mg/kg dry
Nickel	9.3		2.4	mg/kg dry
Lead	19		0.95	mg/kg dry
Antimony	3.2		2.4	mg/kg dry
Selenium	---	U	2.4	mg/kg dry
Thallium	---	U	2.4	mg/kg dry
Vanadium	590		2.4	mg/kg dry
Zinc	7.9		2.4	mg/kg dry
Field ID: RMA-WST05A			**Sample ID: 1109056-04**	
Mercury CVAA				
Mercury	0.320		0.049	mg/kg dry
Metals ICP				
Silver	---	U	0.56	mg/kg dry
Aluminum	75000		11	mg/kg dry
Arsenic	11		0.90	mg/kg dry
Barium	100		11	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST05A			**Sample ID: 1109056-04**	
Metals ICP				
Beryllium	---	U	0.34	mg/kg dry
Calcium	8800		56	mg/kg dry
Cadmium	0.54		0.34	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	760		0.56	mg/kg dry
Copper	9.1		2.3	mg/kg dry
Iron	180000		56	mg/kg dry
Potassium	590		56	mg/kg dry
Magnesium	550		56	mg/kg dry
Manganese	25		0.56	mg/kg dry
Sodium	62000		110	mg/kg dry
Nickel	9.6		2.3	mg/kg dry
Lead	43		0.90	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	530		2.3	mg/kg dry
Zinc	11		2.3	mg/kg dry
Field ID: RMA-WST05B			**Sample ID: 1109056-05**	
Mercury CVAA				
Mercury	0.328		0.052	mg/kg dry
Metals ICP				
Silver	---	U	0.61	mg/kg dry
Aluminum	90000		12	mg/kg dry
Arsenic	9.7		0.98	mg/kg dry
Barium	120		12	mg/kg dry
Beryllium	---	U	0.37	mg/kg dry
Calcium	7100		61	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST05B			**Sample ID: 1109056-05**	
Metals ICP				
Cadmium	0.51		0.37	mg/kg dry
Cobalt	---	U	2.5	mg/kg dry
Chromium	530		0.61	mg/kg dry
Copper	7.2		2.5	mg/kg dry
Iron	200000		61	mg/kg dry
Potassium	390		61	mg/kg dry
Magnesium	680		61	mg/kg dry
Manganese	17		0.61	mg/kg dry
Sodium	60000		120	mg/kg dry
Nickel	9.9		2.5	mg/kg dry
Lead	37		0.98	mg/kg dry
Antimony	---	U	2.5	mg/kg dry
Selenium	---	U	2.5	mg/kg dry
Thallium	---	U	2.5	mg/kg dry
Vanadium	620		2.5	mg/kg dry
Zinc	7.6		2.5	mg/kg dry
Field ID: RMA-WST06B			**Sample ID: 1109056-06**	
Mercury CVAA				
Mercury	0.201		0.048	mg/kg dry
Metals ICP				
Silver	---	U	0.55	mg/kg dry
Aluminum	61000		11	mg/kg dry
Arsenic	15		0.89	mg/kg dry
Barium	78		11	mg/kg dry
Beryllium	---	U	0.33	mg/kg dry
Calcium	16000		55	mg/kg dry
Cadmium	0.58	J	0.33	mg/kg dry
Cobalt	---	U	2.2	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST06B			**Sample ID: 1109056-06**	
Metals ICP				
Chromium	910		0.55	mg/kg dry
Copper	10		2.2	mg/kg dry
Iron	200000		55	mg/kg dry
Potassium	560		55	mg/kg dry
Magnesium	800		55	mg/kg dry
Manganese	65		0.55	mg/kg dry
Sodium	28000		110	mg/kg dry
Nickel	9.8		2.2	mg/kg dry
Lead	68		0.89	mg/kg dry
Antimony	---	U	2.2	mg/kg dry
Selenium	---	U	2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	750		2.2	mg/kg dry
Zinc	11		2.2	mg/kg dry
Field ID: RMA-WST12B			**Sample ID: 1109056-07**	
Mercury CVAA				
Mercury	0.222		0.043	mg/kg dry
Metals ICP				
Silver	---	U	0.50	mg/kg dry
Aluminum	74000		10	mg/kg dry
Arsenic	11		0.80	mg/kg dry
Barium	49		10	mg/kg dry
Beryllium	---	U	0.30	mg/kg dry
Calcium	6800		50	mg/kg dry
Cadmium	1.7		0.30	mg/kg dry
Cobalt	---	U	2.0	mg/kg dry
Chromium	640		0.50	mg/kg dry
Copper	4.4		2.0	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST12B			**Sample ID: 1109056-07**	
Metals ICP				
Iron	250000		50	mg/kg dry
Potassium	450		50	mg/kg dry
Magnesium	1400		50	mg/kg dry
Manganese	110		0.50	mg/kg dry
Sodium	41000		100	mg/kg dry
Nickel	11		2.0	mg/kg dry
Lead	47		0.80	mg/kg dry
Antimony	---	U	2.0	mg/kg dry
Selenium	---	U	2.0	mg/kg dry
Thallium	---	U	2.0	mg/kg dry
Vanadium	790		2.0	mg/kg dry
Zinc	7.7		2.0	mg/kg dry
Field ID: RMA-WST18B			**Sample ID: 1109056-08**	
Mercury CVAA				
Mercury	0.367		0.048	mg/kg dry
Metals ICP				
Silver	---	U	0.60	mg/kg dry
Aluminum	86000		12	mg/kg dry
Arsenic	12		0.96	mg/kg dry
Barium	68		12	mg/kg dry
Beryllium	---	U	0.36	mg/kg dry
Calcium	7800		60	mg/kg dry
Cadmium	0.63		0.36	mg/kg dry
Cobalt	---	U	2.4	mg/kg dry
Chromium	540		0.60	mg/kg dry
Copper	6.6		2.4	mg/kg dry
Iron	230000		60	mg/kg dry
Potassium	400		60	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST18B			**Sample ID: 1109056-08**	
Metals ICP				
Magnesium	450		60	mg/kg dry
Manganese	16		0.60	mg/kg dry
Sodium	56000		120	mg/kg dry
Nickel	9.2		2.4	mg/kg dry
Lead	38		0.96	mg/kg dry
Antimony	---	U	2.4	mg/kg dry
Selenium	---	U	2.4	mg/kg dry
Thallium	---	U	2.4	mg/kg dry
Vanadium	790		2.4	mg/kg dry
Zinc	6.3		2.4	mg/kg dry
Field ID: RMA-WST01B			**Sample ID: 1109056-09**	
Mercury CVAA				
Mercury	0.169		0.038	mg/kg dry
Metals ICP				
Silver	---	U	0.44	mg/kg dry
Aluminum	65000		8.8	mg/kg dry
Arsenic	8.8		0.70	mg/kg dry
Barium	62		8.8	mg/kg dry
Beryllium	---	U	0.26	mg/kg dry
Calcium	88000		44	mg/kg dry
Cadmium	0.83		0.26	mg/kg dry
Cobalt	---	U	1.8	mg/kg dry
Chromium	310		0.44	mg/kg dry
Copper	11		1.8	mg/kg dry
Iron	170000		44	mg/kg dry
Potassium	480		44	mg/kg dry
Magnesium	6100		44	mg/kg dry
Manganese	210		0.44	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST01B			**Sample ID: 1109056-09**	
Metals ICP				
Sodium	29000		88	mg/kg dry
Nickel	9.0		1.8	mg/kg dry
Lead	30		0.70	mg/kg dry
Antimony	---	U	1.8	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Vanadium	470		1.8	mg/kg dry
Zinc	13		1.8	mg/kg dry
Field ID: RMA-WST01C			**Sample ID: 1109056-10**	
Mercury CVAA				
Mercury	0.168		0.036	mg/kg dry
Metals ICP				
Silver	---	U	0.44	mg/kg dry
Aluminum	83000		89	mg/kg dry
Arsenic	9.2		0.71	mg/kg dry
Barium	88		8.9	mg/kg dry
Beryllium	---	U	0.27	mg/kg dry
Calcium	24000		44	mg/kg dry
Cadmium	1.5		0.27	mg/kg dry
Cobalt	---	U	1.8	mg/kg dry
Chromium	420		0.44	mg/kg dry
Copper	11		1.8	mg/kg dry
Iron	210000		44	mg/kg dry
Potassium	530		44	mg/kg dry
Magnesium	4700		44	mg/kg dry
Manganese	140		0.44	mg/kg dry
Sodium	39000		89	mg/kg dry
Nickel	11		1.8	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST01C			**Sample ID: 1109056-10**	
Metals ICP				
Lead	38		0.71	mg/kg dry
Antimony	3.1		1.8	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Vanadium	580		1.8	mg/kg dry
Zinc	14		1.8	mg/kg dry
Field ID: RMA-WST07B			**Sample ID: 1109056-11**	
Mercury CVAA				
Mercury	0.076		0.053	mg/kg dry
Metals ICP				
Silver	---	U	0.55	mg/kg dry
Aluminum	44000		11	mg/kg dry
Arsenic	10		0.88	mg/kg dry
Barium	160		11	mg/kg dry
Beryllium	1.2		0.33	mg/kg dry
Calcium	16000		55	mg/kg dry
Cadmium	0.77	J	0.33	mg/kg dry
Cobalt	37		2.2	mg/kg dry
Chromium	1500		0.55	mg/kg dry
Copper	32		22	mg/kg dry
Iron	170000		55	mg/kg dry
Potassium	1600		55	mg/kg dry
Magnesium	1300		55	mg/kg dry
Manganese	84		0.55	mg/kg dry
Sodium	29000		110	mg/kg dry
Nickel	16		2.2	mg/kg dry
Lead	88		0.88	mg/kg dry
Antimony	7.4		2.2	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST07B			**Sample ID: 1109056-11**	
Metals ICP				
Selenium	---	U	2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	470		2.2	mg/kg dry
Zinc	17		2.2	mg/kg dry
Field ID: RMA-WST08A			**Sample ID: 1109056-12**	
Mercury CVAA				
Mercury	0.171		0.046	mg/kg dry
Metals ICP				
Silver	---	U	0.57	mg/kg dry
Aluminum	81000		11	mg/kg dry
Arsenic	13		0.91	mg/kg dry
Barium	110		11	mg/kg dry
Beryllium	---	U	0.34	mg/kg dry
Calcium	5300		57	mg/kg dry
Cadmium	0.90		0.34	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	520		0.57	mg/kg dry
Copper	9.4		2.3	mg/kg dry
Iron	210000		57	mg/kg dry
Potassium	1300		57	mg/kg dry
Magnesium	650		57	mg/kg dry
Manganese	26		0.57	mg/kg dry
Sodium	76000		110	mg/kg dry
Nickel	10		2.3	mg/kg dry
Lead	28		0.91	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	4.7		2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST08A			**Sample ID: 1109056-12**	
Metals ICP				
Vanadium	920		2.3	mg/kg dry
Zinc	12		2.3	mg/kg dry
Field ID: RMA-WST08B			**Sample ID: 1109056-13**	
Mercury CVAA				
Mercury	0.164		0.049	mg/kg dry
Metals ICP				
Silver	---	U	0.62	mg/kg dry
Aluminum	100000		120	mg/kg dry
Arsenic	11		0.99	mg/kg dry
Barium	150		12	mg/kg dry
Beryllium	---	U	0.37	mg/kg dry
Calcium	8300		62	mg/kg dry
Cadmium	0.99		0.37	mg/kg dry
Cobalt	---	U	2.5	mg/kg dry
Chromium	490		0.62	mg/kg dry
Copper	12		2.5	mg/kg dry
Iron	200000		62	mg/kg dry
Potassium	780		62	mg/kg dry
Magnesium	710		62	mg/kg dry
Manganese	33		0.62	mg/kg dry
Sodium	60000		120	mg/kg dry
Nickel	13		2.5	mg/kg dry
Lead	39		0.99	mg/kg dry
Antimony	---	U	2.5	mg/kg dry
Selenium	---	U	2.5	mg/kg dry
Thallium	---	U	2.5	mg/kg dry
Vanadium	710		2.5	mg/kg dry
Zinc	21		2.5	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST10A			**Sample ID: 1109056-14**	
Mercury CVAA				
Mercury	0.138		0.045	mg/kg dry
Metals ICP				
Silver	0.58		0.54	mg/kg dry
Aluminum	76000		11	mg/kg dry
Arsenic	9.5		0.87	mg/kg dry
Barium	62		11	mg/kg dry
Beryllium	---	U	0.33	mg/kg dry
Calcium	6100		54	mg/kg dry
Cadmium	0.50		0.33	mg/kg dry
Cobalt	---	U	2.2	mg/kg dry
Chromium	280		0.54	mg/kg dry
Copper	4.0		2.2	mg/kg dry
Iron	210000		54	mg/kg dry
Potassium	480		54	mg/kg dry
Magnesium	650		54	mg/kg dry
Manganese	24		0.54	mg/kg dry
Sodium	63000		110	mg/kg dry
Nickel	7.5		2.2	mg/kg dry
Lead	22		0.87	mg/kg dry
Antimony	3.1		2.2	mg/kg dry
Selenium	---	U	2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	580		2.2	mg/kg dry
Zinc	6.3		2.2	mg/kg dry
Field ID: RMA-WST10B			**Sample ID: 1109056-15**	
Mercury CVAA				
Mercury	0.240		0.043	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST10B			**Sample ID: 1109056-15**	
Metals ICP				
Silver	---	U	0.46	mg/kg dry
Aluminum	74000		92	mg/kg dry
Arsenic	7.6		0.74	mg/kg dry
Barium	16		9.2	mg/kg dry
Beryllium	---	U	0.28	mg/kg dry
Calcium	5300		46	mg/kg dry
Cadmium	1.5		0.28	mg/kg dry
Cobalt	---	U	1.8	mg/kg dry
Chromium	370		0.46	mg/kg dry
Copper	2.0		1.8	mg/kg dry
Iron	250000		46	mg/kg dry
Potassium	320		46	mg/kg dry
Magnesium	640		46	mg/kg dry
Manganese	23		0.46	mg/kg dry
Sodium	41000		92	mg/kg dry
Nickel	7.8		1.8	mg/kg dry
Lead	30		0.74	mg/kg dry
Antimony	3.8		1.8	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Vanadium	610		1.8	mg/kg dry
Zinc	4.8		1.8	mg/kg dry
Field ID: RMA-WST11B			**Sample ID: 1109056-16**	
Mercury CVAA				
Mercury	0.393		0.055	mg/kg dry
Metals ICP				
Silver	---	U	0.56	mg/kg dry
Aluminum	85000		11	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST11B			**Sample ID: 1109056-16**	
Metals ICP				
Arsenic	10		0.90	mg/kg dry
Barium	100		11	mg/kg dry
Beryllium	---	U	0.34	mg/kg dry
Calcium	7200		56	mg/kg dry
Cadmium	0.51		0.34	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	500		0.56	mg/kg dry
Copper	8.3		2.3	mg/kg dry
Iron	230000		56	mg/kg dry
Potassium	830		56	mg/kg dry
Magnesium	520		56	mg/kg dry
Manganese	19		0.56	mg/kg dry
Sodium	57000		110	mg/kg dry
Nickel	10		2.3	mg/kg dry
Lead	36		0.90	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	730		2.3	mg/kg dry
Zinc	12		2.3	mg/kg dry
Field ID: RMA-WST19B			**Sample ID: 1109056-17**	
Mercury CVAA				
Mercury	0.513		0.057	mg/kg dry
Metals ICP				
Silver	---	U	0.62	mg/kg dry
Aluminum	99000		12	mg/kg dry
Arsenic	11		0.99	mg/kg dry
Barium	170		12	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST19B			**Sample ID: 1109056-17**	
Metals ICP				
Beryllium	0.72		0.37	mg/kg dry
Calcium	13000		62	mg/kg dry
Cadmium	0.50		0.37	mg/kg dry
Cobalt	3.0		2.5	mg/kg dry
Chromium	480		0.62	mg/kg dry
Copper	20		2.5	mg/kg dry
Iron	180000		62	mg/kg dry
Potassium	950		62	mg/kg dry
Magnesium	680		62	mg/kg dry
Manganese	37		0.62	mg/kg dry
Sodium	56000		120	mg/kg dry
Nickel	18		2.5	mg/kg dry
Lead	28		0.99	mg/kg dry
Antimony	---	U	2.5	mg/kg dry
Selenium	---	U	2.5	mg/kg dry
Thallium	---	U	2.5	mg/kg dry
Vanadium	620		2.5	mg/kg dry
Zinc	21		2.5	mg/kg dry
Field ID: RMA-WST01A			**Sample ID: 1109061-01**	
Mercury CVAA				
Mercury	0.263		0.051	mg/kg dry
Metals ICP				
Silver	---	U	1.1	mg/kg dry
Aluminum	36000		21	mg/kg dry
Arsenic	16		1.7	mg/kg dry
Barium	---	U	21	mg/kg dry
Beryllium	---	U	0.63	mg/kg dry
Calcium	9600		110	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST01A			**Sample ID: 1109061-01**	
Metals ICP				
Cadmium	0.72		0.63	mg/kg dry
Cobalt	---	U	4.2	mg/kg dry
Chromium	310		1.1	mg/kg dry
Copper	12		2.1	mg/kg dry
Iron	380000		260	mg/kg dry
Potassium	240	J	110	mg/kg dry
Magnesium	2500		110	mg/kg dry
Manganese	430		1.1	mg/kg dry
Sodium	4400		210	mg/kg dry
Nickel	9.3	J	4.2	mg/kg dry
Lead	39		1.7	mg/kg dry
Antimony	---	U J	4.2	mg/kg dry
Selenium	---	U	4.2	mg/kg dry
Thallium	---	U J	4.2	mg/kg dry
Vanadium	1100		4.2	mg/kg dry
Zinc	14		4.2	mg/kg dry
Field ID: RMA-WST02A			**Sample ID: 1109061-02**	
Mercury CVAA				
Mercury	0.336		0.058	mg/kg dry
Metals ICP				
Silver	0.87		0.58	mg/kg dry
Aluminum	93000		12	mg/kg dry
Arsenic	6.5		0.92	mg/kg dry
Barium	72		12	mg/kg dry
Beryllium	---	U	0.35	mg/kg dry
Calcium	11000		58	mg/kg dry
Cadmium	0.41		0.35	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST02A			**Sample ID: 1109061-02**	
Metals ICP				
Chromium	510		0.58	mg/kg dry
Copper	14		1.2	mg/kg dry
Potassium	550		58	mg/kg dry
Magnesium	480		58	mg/kg dry
Manganese	27		0.58	mg/kg dry
Sodium	64000		120	mg/kg dry
Nickel	7.6		2.3	mg/kg dry
Lead	29		0.92	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	2.6		2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	720		2.3	mg/kg dry
Zinc	8.8		2.3	mg/kg dry
Iron	210000		290	mg/kg dry
Field ID: RMA-WST03A			**Sample ID: 1109061-03**	
Mercury CVAA				
Mercury	0.189		0.058	mg/kg dry
Metals ICP				
Silver	1.1		0.63	mg/kg dry
Aluminum	86000		13	mg/kg dry
Arsenic	5.8		1.0	mg/kg dry
Barium	64		13	mg/kg dry
Beryllium	---	U	0.38	mg/kg dry
Calcium	14000		63	mg/kg dry
Cadmium	---	U	0.38	mg/kg dry
Cobalt	---	U	2.5	mg/kg dry
Chromium	670		0.63	mg/kg dry
Copper	14		1.3	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST03A			**Sample ID: 1109061-03**	
Metals ICP				
Potassium	800		63	mg/kg dry
Magnesium	700		63	mg/kg dry
Manganese	41		0.63	mg/kg dry
Sodium	65000		130	mg/kg dry
Nickel	7.1		2.5	mg/kg dry
Lead	34		1.0	mg/kg dry
Antimony	---	U	2.5	mg/kg dry
Selenium	4.6		2.5	mg/kg dry
Thallium	---	U	2.5	mg/kg dry
Vanadium	560		2.5	mg/kg dry
Zinc	6.0		2.5	mg/kg dry
Iron	190000		310	mg/kg dry
Field ID: RMA-WST04A			**Sample ID: 1109061-04**	
Mercury CVAA				
Mercury	0.396		0.057	mg/kg dry
Metals ICP				
Silver	1.4		0.59	mg/kg dry
Arsenic	7.1		0.95	mg/kg dry
Barium	42		12	mg/kg dry
Beryllium	---	U	0.36	mg/kg dry
Calcium	7800		59	mg/kg dry
Cadmium	0.54		0.36	mg/kg dry
Cobalt	---	U	2.4	mg/kg dry
Chromium	350		0.59	mg/kg dry
Copper	9.0		1.2	mg/kg dry
Iron	250000		300	mg/kg dry
Potassium	750		59	mg/kg dry
Magnesium	670		59	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST04A			**Sample ID: 1109061-04**	
Metals ICP				
Manganese	17		0.59	mg/kg dry
Sodium	60000		120	mg/kg dry
Nickel	4.2		2.4	mg/kg dry
Lead	20		0.95	mg/kg dry
Antimony	---	U	2.4	mg/kg dry
Selenium	3.1		2.4	mg/kg dry
Thallium	---	U	2.4	mg/kg dry
Vanadium	650		2.4	mg/kg dry
Zinc	9.5		2.4	mg/kg dry
Aluminum	100000		300	mg/kg dry
Field ID: RMA-WST06A			**Sample ID: 1109061-05**	
Mercury CVAA				
Mercury	0.213		0.054	mg/kg dry
Metals ICP				
Silver	---	U	0.53	mg/kg dry
Aluminum	70000		11	mg/kg dry
Arsenic	3.8		0.84	mg/kg dry
Barium	65		11	mg/kg dry
Beryllium	---	U	0.32	mg/kg dry
Calcium	15000		53	mg/kg dry
Cadmium	---	U	0.32	mg/kg dry
Cobalt	---	U	2.1	mg/kg dry
Chromium	840		0.53	mg/kg dry
Copper	15		1.1	mg/kg dry
Iron	210000		260	mg/kg dry
Potassium	410		53	mg/kg dry
Magnesium	800		53	mg/kg dry
Manganese	59		0.53	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST06A			**Sample ID: 1109061-05**	
Metals ICP				
Sodium	41000		110	mg/kg dry
Nickel	6.3		2.1	mg/kg dry
Lead	58		0.84	mg/kg dry
Antimony	---	U	2.1	mg/kg dry
Selenium	---	U	2.1	mg/kg dry
Thallium	---	U	2.1	mg/kg dry
Vanadium	610		2.1	mg/kg dry
Zinc	5.9		2.1	mg/kg dry
Field ID: RMA-WST07A			**Sample ID: 1109061-06**	
Mercury CVAA				
Mercury	0.213		0.053	mg/kg dry
Metals ICP				
Silver	0.80		0.60	mg/kg dry
Aluminum	84000		12	mg/kg dry
Arsenic	7.1		0.95	mg/kg dry
Barium	97		12	mg/kg dry
Beryllium	---	U	0.36	mg/kg dry
Calcium	9500		60	mg/kg dry
Cadmium	---	U	0.36	mg/kg dry
Cobalt	---	U	2.4	mg/kg dry
Chromium	490		0.60	mg/kg dry
Copper	12		1.2	mg/kg dry
Potassium	810		60	mg/kg dry
Magnesium	770		60	mg/kg dry
Manganese	37		0.60	mg/kg dry
Sodium	63000		120	mg/kg dry
Nickel	6.7		2.4	mg/kg dry
Lead	33		0.95	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST07A			**Sample ID: 1109061-06**	
Metals ICP				
Antimony	---	U	2.4	mg/kg dry
Selenium	---	U	2.4	mg/kg dry
Thallium	---	U	2.4	mg/kg dry
Vanadium	1300		2.4	mg/kg dry
Zinc	8.7		2.4	mg/kg dry
Iron	190000		300	mg/kg dry
Field ID: RMA-WST09A			**Sample ID: 1109061-07**	
Mercury CVAA				
Mercury	0.229		0.052	mg/kg dry
Metals ICP				
Silver	1.4		0.54	mg/kg dry
Aluminum	66000		11	mg/kg dry
Arsenic	16		0.87	mg/kg dry
Barium	47		11	mg/kg dry
Beryllium	---	U	0.32	mg/kg dry
Calcium	19000		54	mg/kg dry
Cadmium	0.76		0.32	mg/kg dry
Cobalt	---	U	2.2	mg/kg dry
Chromium	320		0.54	mg/kg dry
Copper	13		1.1	mg/kg dry
Iron	280000		270	mg/kg dry
Potassium	390		54	mg/kg dry
Magnesium	1100		54	mg/kg dry
Manganese	110		0.54	mg/kg dry
Sodium	34000		110	mg/kg dry
Nickel	4.3		2.2	mg/kg dry
Lead	32		0.87	mg/kg dry
Antimony	---	U	2.2	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST09A			**Sample ID: 1109061-07**	
Metals ICP				
Selenium	2.7		2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	890		2.2	mg/kg dry
Zinc	16		2.2	mg/kg dry
Field ID: RMA-WST09B			**Sample ID: 1109061-08**	
Mercury CVAA				
Mercury	0.290		0.044	mg/kg dry
Metals ICP				
Silver	1.1		0.65	mg/kg dry
Aluminum	89000		13	mg/kg dry
Arsenic	3.3		1.0	mg/kg dry
Barium	69		13	mg/kg dry
Beryllium	---	U	0.39	mg/kg dry
Calcium	11000		65	mg/kg dry
Cadmium	---	U	0.39	mg/kg dry
Cobalt	---	U	2.6	mg/kg dry
Chromium	560		0.65	mg/kg dry
Copper	11		1.3	mg/kg dry
Potassium	310		65	mg/kg dry
Magnesium	440		65	mg/kg dry
Manganese	19		0.65	mg/kg dry
Sodium	57000		130	mg/kg dry
Nickel	6.6		2.6	mg/kg dry
Lead	33		1.0	mg/kg dry
Antimony	---	U	2.6	mg/kg dry
Selenium	---	U	2.6	mg/kg dry
Thallium	---	U	2.6	mg/kg dry
Vanadium	480		2.6	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST09B			**Sample ID: 1109061-08**	
Metals ICP				
Zinc	4.6		2.6	mg/kg dry
Iron	180000		320	mg/kg dry
Field ID: RMA-WST11A			**Sample ID: 1109061-09**	
Mercury CVAA				
Mercury	0.241		0.064	mg/kg dry
Metals ICP				
Silver	0.76		0.59	mg/kg dry
Aluminum	85000		12	mg/kg dry
Arsenic	5.6		0.94	mg/kg dry
Barium	83		12	mg/kg dry
Beryllium	---	U	0.35	mg/kg dry
Calcium	9900		59	mg/kg dry
Cadmium	---	U	0.35	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	770		0.59	mg/kg dry
Copper	14		1.2	mg/kg dry
Potassium	1200		59	mg/kg dry
Magnesium	580		59	mg/kg dry
Manganese	51		0.59	mg/kg dry
Sodium	76000		120	mg/kg dry
Nickel	6.8		2.3	mg/kg dry
Lead	36		0.94	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	16		2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	610		2.3	mg/kg dry
Zinc	5.2		2.3	mg/kg dry
Iron	200000		290	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST11C			**Sample ID: 1109061-10**	
Mercury CVAA				
Mercury	0.294		0.050	mg/kg dry
Metals ICP				
Silver	0.71		0.62	mg/kg dry
Aluminum	87000		12	mg/kg dry
Arsenic	5.3		0.99	mg/kg dry
Barium	86		12	mg/kg dry
Beryllium	---	U	0.37	mg/kg dry
Calcium	10000		62	mg/kg dry
Cadmium	---	U	0.37	mg/kg dry
Cobalt	---	U	2.5	mg/kg dry
Chromium	770		0.62	mg/kg dry
Copper	15		1.2	mg/kg dry
Potassium	1200		62	mg/kg dry
Magnesium	600		62	mg/kg dry
Manganese	45		0.62	mg/kg dry
Sodium	76000		120	mg/kg dry
Nickel	7.2		2.5	mg/kg dry
Lead	37		0.99	mg/kg dry
Antimony	---	U	2.5	mg/kg dry
Selenium	13		2.5	mg/kg dry
Thallium	---	U	2.5	mg/kg dry
Vanadium	640		2.5	mg/kg dry
Zinc	6.4		2.5	mg/kg dry
Iron	200000		310	mg/kg dry
Field ID: RMA-WST12A			**Sample ID: 1109061-11**	
Mercury CVAA				
Mercury	0.195		0.053	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST12A			**Sample ID: 1109061-11**	
Metals ICP				
Silver	1.1		0.62	mg/kg dry
Aluminum	96000		12	mg/kg dry
Arsenic	11		0.99	mg/kg dry
Barium	89		12	mg/kg dry
Beryllium	---	U	0.37	mg/kg dry
Calcium	8900		62	mg/kg dry
Cadmium	---	U	0.37	mg/kg dry
Cobalt	---	U	2.5	mg/kg dry
Chromium	490		0.62	mg/kg dry
Copper	12		1.2	mg/kg dry
Potassium	760		62	mg/kg dry
Magnesium	1200		62	mg/kg dry
Manganese	49		0.62	mg/kg dry
Sodium	56000		120	mg/kg dry
Nickel	6.5		2.5	mg/kg dry
Lead	35		0.99	mg/kg dry
Antimony	---	U	2.5	mg/kg dry
Selenium	---	U	2.5	mg/kg dry
Thallium	---	U	2.5	mg/kg dry
Vanadium	910		2.5	mg/kg dry
Zinc	9.5		2.5	mg/kg dry
Iron	220000		310	mg/kg dry
Field ID: RMA-WST13A			**Sample ID: 1109061-12**	
Mercury CVAA				
Mercury	0.296		0.051	mg/kg dry
Metals ICP				
Silver	0.94		0.57	mg/kg dry
Aluminum	77000		11	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST13A			**Sample ID: 1109061-12**	
Metals ICP				
Arsenic	3.6		0.91	mg/kg dry
Barium	52		11	mg/kg dry
Beryllium	---	U	0.34	mg/kg dry
Calcium	14000		57	mg/kg dry
Cadmium	---	U	0.34	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	870		0.57	mg/kg dry
Copper	12		1.1	mg/kg dry
Potassium	500		57	mg/kg dry
Magnesium	580		57	mg/kg dry
Manganese	65		0.57	mg/kg dry
Sodium	63000		110	mg/kg dry
Nickel	6.4		2.3	mg/kg dry
Lead	41		0.91	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	530		2.3	mg/kg dry
Zinc	3.8		2.3	mg/kg dry
Iron	200000		280	mg/kg dry
Field ID: RMA-WST13B			**Sample ID: 1109061-13**	
Mercury CVAA				
Mercury	0.180		0.057	mg/kg dry
Metals ICP				
Silver	---	U	0.55	mg/kg dry
Aluminum	70000		11	mg/kg dry
Arsenic	4.9		0.88	mg/kg dry
Barium	80		11	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST13B			**Sample ID: 1109061-13**	
Metals ICP				
Beryllium	---	U	0.33	mg/kg dry
Calcium	19000		55	mg/kg dry
Cadmium	---	U	0.33	mg/kg dry
Cobalt	---	U	2.2	mg/kg dry
Chromium	1100		0.55	mg/kg dry
Copper	16		1.1	mg/kg dry
Potassium	230		55	mg/kg dry
Magnesium	470		55	mg/kg dry
Manganese	60		0.55	mg/kg dry
Sodium	25000		110	mg/kg dry
Nickel	7.1		2.2	mg/kg dry
Lead	79		0.88	mg/kg dry
Antimony	---	U	2.2	mg/kg dry
Selenium	---	U	2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	580		2.2	mg/kg dry
Zinc	---	U	2.2	mg/kg dry
Iron	190000		280	mg/kg dry
Field ID: RMA-WST18A			**Sample ID: 1109061-14**	
Mercury CVAA				
Mercury	0.373		0.057	mg/kg dry
Metals ICP				
Silver	0.74		0.59	mg/kg dry
Aluminum	87000		12	mg/kg dry
Arsenic	3.9		0.94	mg/kg dry
Barium	93		12	mg/kg dry
Beryllium	0.46		0.35	mg/kg dry
Calcium	11000		59	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST18A			**Sample ID: 1109061-14**	
Metals ICP				
Cadmium	---	U	0.35	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	680		0.59	mg/kg dry
Copper	15		1.2	mg/kg dry
Potassium	1000		59	mg/kg dry
Magnesium	550		59	mg/kg dry
Manganese	27		0.59	mg/kg dry
Sodium	67000		120	mg/kg dry
Nickel	8.5		2.3	mg/kg dry
Lead	37		0.94	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	490		2.3	mg/kg dry
Zinc	6.7		2.3	mg/kg dry
Iron	190000		290	mg/kg dry
Field ID: RMA-WST19A			**Sample ID: 1109061-15**	
Mercury CVAA				
Mercury	0.422		0.063	mg/kg dry
Metals ICP				
Silver	0.76		0.59	mg/kg dry
Aluminum	84000		12	mg/kg dry
Arsenic	6.2		0.95	mg/kg dry
Barium	130		12	mg/kg dry
Beryllium	---	U	0.35	mg/kg dry
Calcium	7200		59	mg/kg dry
Cadmium	---	U	0.35	mg/kg dry
Cobalt	---	U	2.4	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST19A			**Sample ID: 1109061-15**	
Metals ICP				
Chromium	670		0.59	mg/kg dry
Copper	13		1.2	mg/kg dry
Potassium	1300		59	mg/kg dry
Magnesium	650		59	mg/kg dry
Manganese	20		0.59	mg/kg dry
Sodium	68000		120	mg/kg dry
Nickel	7.4		2.4	mg/kg dry
Lead	33		0.95	mg/kg dry
Antimony	---	U	2.4	mg/kg dry
Selenium	4.7		2.4	mg/kg dry
Thallium	---	U	2.4	mg/kg dry
Vanadium	610		2.4	mg/kg dry
Zinc	13		2.4	mg/kg dry
Iron	220000		300	mg/kg dry
Field ID: RMA-WST20A			**Sample ID: 1109061-16**	
Mercury CVAA				
Mercury	0.270		0.055	mg/kg dry
Metals ICP				
Silver	0.60		0.59	mg/kg dry
Aluminum	86000		12	mg/kg dry
Arsenic	6.1		0.94	mg/kg dry
Barium	85		12	mg/kg dry
Beryllium	---	U	0.35	mg/kg dry
Calcium	6600		59	mg/kg dry
Cadmium	---	U	0.35	mg/kg dry
Cobalt	---	U	2.4	mg/kg dry
Chromium	500		0.59	mg/kg dry
Copper	12		1.2	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST20A			**Sample ID: 1109061-16**	
Metals ICP				
Potassium	1100		59	mg/kg dry
Magnesium	680		59	mg/kg dry
Manganese	33		0.59	mg/kg dry
Sodium	95000		3000	mg/kg dry
Nickel	7.1		2.4	mg/kg dry
Lead	29		0.94	mg/kg dry
Antimony	---	U	2.4	mg/kg dry
Selenium	2.9		2.4	mg/kg dry
Thallium	---	U	2.4	mg/kg dry
Vanadium	550		2.4	mg/kg dry
Zinc	11		2.4	mg/kg dry
Iron	190000		300	mg/kg dry
Field ID: RMA-WST20B			**Sample ID: 1109061-17**	
Mercury CVAA				
Mercury	0.349		0.047	mg/kg dry
Metals ICP				
Silver	0.95		0.54	mg/kg dry
Aluminum	79000		11	mg/kg dry
Arsenic	8.7		0.87	mg/kg dry
Barium	66		11	mg/kg dry
Beryllium	---	U	0.33	mg/kg dry
Calcium	9100		54	mg/kg dry
Cadmium	0.40		0.33	mg/kg dry
Cobalt	---	U	2.2	mg/kg dry
Chromium	370		0.54	mg/kg dry
Copper	13		1.1	mg/kg dry
Iron	250000		270	mg/kg dry
Potassium	590		54	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST20B			**Sample ID: 1109061-17**	
Metals ICP				
Magnesium	1200		54	mg/kg dry
Manganese	93		0.54	mg/kg dry
Sodium	42000		110	mg/kg dry
Nickel	5.8		2.2	mg/kg dry
Lead	28		0.87	mg/kg dry
Antimony	---	U	2.2	mg/kg dry
Selenium	---	U	2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	710		2.2	mg/kg dry
Zinc	16		2.2	mg/kg dry
Field ID: UCP-SD36			**Sample ID: 1109061-18**	
Mercury CVAA				
Mercury	0.076		0.052	mg/kg dry
Metals ICP				
Silver	---	U	0.67	mg/kg dry
Aluminum	49000		13	mg/kg dry
Arsenic	19		1.1	mg/kg dry
Barium	120		13	mg/kg dry
Beryllium	---	U	0.40	mg/kg dry
Calcium	67000		67	mg/kg dry
Cadmium	---	U	0.40	mg/kg dry
Cobalt	7.0		2.7	mg/kg dry
Chromium	220		0.67	mg/kg dry
Copper	38		1.3	mg/kg dry
Iron	45000		13	mg/kg dry
Potassium	4300		67	mg/kg dry
Magnesium	38000		67	mg/kg dry
Manganese	270		0.67	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SD36			**Sample ID: 1109061-18**	
Metals ICP				
Sodium	29000		130	mg/kg dry
Nickel	10		2.7	mg/kg dry
Lead	10		1.1	mg/kg dry
Antimony	---	U	2.7	mg/kg dry
Selenium	---	U	2.7	mg/kg dry
Thallium	---	U	2.7	mg/kg dry
Vanadium	330		2.7	mg/kg dry
Zinc	28		2.7	mg/kg dry
Sanitary				
Organic Carbon, Total	18000			mg/kg
Field ID: UCP-SD38			**Sample ID: 1109061-19**	
Mercury CVAA				
Mercury	0.259		0.057	mg/kg dry
Metals ICP				
Silver	1.1		0.67	mg/kg dry
Aluminum	86000		13	mg/kg dry
Arsenic	8.1		1.1	mg/kg dry
Barium	81		13	mg/kg dry
Beryllium	---	U	0.40	mg/kg dry
Calcium	15000		67	mg/kg dry
Cadmium	---	U	0.40	mg/kg dry
Cobalt	---	U	2.7	mg/kg dry
Chromium	480		0.67	mg/kg dry
Copper	16		1.3	mg/kg dry
Potassium	2200		67	mg/kg dry
Magnesium	7800		67	mg/kg dry
Manganese	70		0.67	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: UCP-SD38			**Sample ID: 1109061-19**	
Metals ICP				
Sodium	60000		130	mg/kg dry
Nickel	7.9		2.7	mg/kg dry
Lead	31		1.1	mg/kg dry
Antimony	---	U	2.7	mg/kg dry
Selenium	---	U	2.7	mg/kg dry
Thallium	---	U	2.7	mg/kg dry
Vanadium	530		2.7	mg/kg dry
Zinc	29		2.7	mg/kg dry
Iron	180000		340	mg/kg dry
Sanitary				
Organic Carbon, Total	9700			mg/kg
Field ID: WES-SD25			**Sample ID: 1109061-20**	
Mercury CVAA				
Mercury	---	U	0.049	mg/kg dry
Metals ICP				
Silver	0.73		0.57	mg/kg dry
Aluminum	24000		11	mg/kg dry
Arsenic	5.3		0.91	mg/kg dry
Barium	260		11	mg/kg dry
Beryllium	---	U	0.34	mg/kg dry
Calcium	120000		570	mg/kg dry
Cadmium	---	U	0.34	mg/kg dry
Cobalt	27		2.3	mg/kg dry
Chromium	74		0.57	mg/kg dry
Copper	34		1.1	mg/kg dry
Iron	37000		11	mg/kg dry
Potassium	2900		57	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: WES-SD25			**Sample ID: 1109061-20**	
Metals ICP				
Magnesium	5200		57	mg/kg dry
Manganese	1800		0.57	mg/kg dry
Sodium	1100		110	mg/kg dry
Nickel	18		2.3	mg/kg dry
Lead	15		0.91	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	170		2.3	mg/kg dry
Zinc	27		2.3	mg/kg dry
Sanitary				
Organic Carbon, Total	22000			mg/kg
Field ID: ADP-WST41A			**Sample ID: 1109065-01**	
Mercury CVAA				
Mercury	0.094		0.049	mg/kg dry
Metals ICP				
Silver	---	U	0.61	mg/kg dry
Aluminum	8600		12	mg/kg dry
Arsenic	35		0.97	mg/kg dry
Barium	540		12	mg/kg dry
Beryllium	0.82		0.36	mg/kg dry
Calcium	6200		61	mg/kg dry
Cadmium	0.41		0.36	mg/kg dry
Cobalt	4.8		2.4	mg/kg dry
Chromium	23		0.61	mg/kg dry
Copper	19		1.2	mg/kg dry
Iron	27000		12	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-WST41A			**Sample ID: 1109065-01**	
Metals ICP				
Potassium	1500		61	mg/kg dry
Magnesium	2900		61	mg/kg dry
Manganese	190		0.61	mg/kg dry
Sodium	22000		120	mg/kg dry
Nickel	20		2.4	mg/kg dry
Lead	3.7		0.97	mg/kg dry
Antimony	4.0		2.4	mg/kg dry
Selenium	10		2.4	mg/kg dry
Thallium	---	U	2.4	mg/kg dry
Vanadium	81		2.4	mg/kg dry
Zinc	25		2.4	mg/kg dry
Field ID: ADP-WST41B			**Sample ID: 1109065-02**	
Mercury CVAA				
Mercury	---	U	0.090	mg/kg dry
Metals ICP				
Silver	---	U	1.1	mg/kg dry
Arsenic	13		1.7	mg/kg dry
Barium	180		21	mg/kg dry
Beryllium	---	U	0.64	mg/kg dry
Calcium	4400		110	mg/kg dry
Cadmium	---	U	0.64	mg/kg dry
Cobalt	---	U	4.3	mg/kg dry
Chromium	9.5		1.1	mg/kg dry
Copper	13		2.1	mg/kg dry
Potassium	620		110	mg/kg dry
Magnesium	800		110	mg/kg dry
Manganese	130		1.1	mg/kg dry
Sodium	7000		210	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-WST41B			**Sample ID: 1109065-02**	
Metals ICP				
Nickel	8.3		4.3	mg/kg dry
Lead	2.4		1.7	mg/kg dry
Antimony	---	U	4.3	mg/kg dry
Selenium	10		4.3	mg/kg dry
Thallium	---	U	4.3	mg/kg dry
Vanadium	31		4.3	mg/kg dry
Zinc	14		4.3	mg/kg dry
Aluminum	4900		21	mg/kg dry
Iron	14000		21	mg/kg dry
Field ID: ADP-WST41C			**Sample ID: 1109065-03**	
Mercury CVAA				
Mercury	---	U	0.098	mg/kg dry
Metals ICP				
Silver	---	U	1.2	mg/kg dry
Arsenic	5.6		1.9	mg/kg dry
Barium	110		23	mg/kg dry
Beryllium	---	U	0.70	mg/kg dry
Calcium	3300		120	mg/kg dry
Cadmium	---	U	0.70	mg/kg dry
Cobalt	---	U	4.6	mg/kg dry
Chromium	7.3		1.2	mg/kg dry
Copper	11		2.3	mg/kg dry
Potassium	630		120	mg/kg dry
Magnesium	530		120	mg/kg dry
Manganese	70		1.2	mg/kg dry
Sodium	8100		230	mg/kg dry
Nickel	6.4		4.6	mg/kg dry
Lead	---	U	1.9	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-WST41C			**Sample ID: 1109065-03**	
Metals ICP				
Antimony	---	U	4.6	mg/kg dry
Selenium	11		4.6	mg/kg dry
Thallium	---	U	4.6	mg/kg dry
Vanadium	22		4.6	mg/kg dry
Zinc	10		4.6	mg/kg dry
Aluminum	3900		23	mg/kg dry
Iron	5900		23	mg/kg dry
Field ID: ADP-WST42A			**Sample ID: 1109065-04**	
Mercury CVAA				
Mercury	0.218		0.049	mg/kg dry
Metals ICP				
Silver	---	U	0.56	mg/kg dry
Aluminum	16000		11	mg/kg dry
Arsenic	30		0.89	mg/kg dry
Barium	550		11	mg/kg dry
Beryllium	0.96		0.33	mg/kg dry
Calcium	17000		56	mg/kg dry
Cadmium	0.57		0.33	mg/kg dry
Cobalt	4.7		2.2	mg/kg dry
Chromium	19		0.56	mg/kg dry
Copper	19		1.1	mg/kg dry
Iron	21000		11	mg/kg dry
Potassium	1800		56	mg/kg dry
Magnesium	1400		56	mg/kg dry
Manganese	120		0.56	mg/kg dry
Sodium	27000		110	mg/kg dry
Nickel	19		2.2	mg/kg dry
Lead	4.9		0.89	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: ADP-WST42A			**Sample ID: 1109065-04**	
Metals ICP				
Antimony	4.5		2.2	mg/kg dry
Selenium	8.9		2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	99		2.2	mg/kg dry
Zinc	39		2.2	mg/kg dry
Field ID: RMA-WST14A			**Sample ID: 1109065-05**	
Mercury CVAA				
Mercury	0.147		0.058	mg/kg dry
Metals ICP				
Silver	1.3		0.57	mg/kg dry
Aluminum	40000		11	mg/kg dry
Arsenic	15		0.91	mg/kg dry
Barium	63		11	mg/kg dry
Beryllium	---	U	0.34	mg/kg dry
Calcium	33000		57	mg/kg dry
Cadmium	0.64		0.34	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	370		0.57	mg/kg dry
Copper	14		1.1	mg/kg dry
Iron	310000		280	mg/kg dry
Potassium	370		57	mg/kg dry
Magnesium	1400		57	mg/kg dry
Manganese	170		0.57	mg/kg dry
Sodium	16000		110	mg/kg dry
Nickel	4.3		2.3	mg/kg dry
Lead	45		0.91	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST14A			**Sample ID: 1109065-05**	
Metals ICP				
Thallium	---	U	2.3	mg/kg dry
Vanadium	960		2.3	mg/kg dry
Zinc	21		2.3	mg/kg dry
Field ID: RMA-WST14B			**Sample ID: 1109065-06**	
Mercury CVAA				
Mercury	0.461		0.054	mg/kg dry
Metals ICP				
Silver	1.3		0.59	mg/kg dry
Arsenic	8.2		0.95	mg/kg dry
Barium	37		12	mg/kg dry
Beryllium	---	U	0.35	mg/kg dry
Calcium	20000		59	mg/kg dry
Cadmium	---	U	0.35	mg/kg dry
Cobalt	---	U	2.4	mg/kg dry
Chromium	250		0.59	mg/kg dry
Copper	9.7		1.2	mg/kg dry
Iron	240000		300	mg/kg dry
Potassium	460		59	mg/kg dry
Magnesium	1300		59	mg/kg dry
Manganese	22		0.59	mg/kg dry
Sodium	49000		120	mg/kg dry
Nickel	4.6		2.4	mg/kg dry
Lead	18		0.95	mg/kg dry
Antimony	---	U	2.4	mg/kg dry
Selenium	---	U	2.4	mg/kg dry
Thallium	---	U	2.4	mg/kg dry
Vanadium	620		2.4	mg/kg dry
Zinc	12		2.4	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST14B			**Sample ID: 1109065-06**	
Metals ICP				
Aluminum	120000		300	mg/kg dry
Field ID: RMA-WST15A			**Sample ID: 1109065-07**	
Mercury CVAA				
Mercury	0.193		0.050	mg/kg dry
Metals ICP				
Silver	1.6		0.58	mg/kg dry
Aluminum	63000		12	mg/kg dry
Arsenic	12		0.92	mg/kg dry
Barium	54		12	mg/kg dry
Beryllium	---	U	0.35	mg/kg dry
Calcium	35000		58	mg/kg dry
Cadmium	0.40		0.35	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	320		0.58	mg/kg dry
Copper	15		1.2	mg/kg dry
Iron	250000		290	mg/kg dry
Potassium	690		58	mg/kg dry
Magnesium	1900		58	mg/kg dry
Manganese	87		0.58	mg/kg dry
Sodium	27000		120	mg/kg dry
Nickel	4.7		2.3	mg/kg dry
Lead	32		0.92	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	760		2.3	mg/kg dry
Zinc	21		2.3	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST16A			**Sample ID: 1109065-08**	
Mercury CVAA				
Mercury	0.158		0.050	mg/kg dry
Metals ICP				
Silver	1.4		0.54	mg/kg dry
Aluminum	68000		11	mg/kg dry
Arsenic	11		0.86	mg/kg dry
Barium	65		11	mg/kg dry
Beryllium	---	U	0.32	mg/kg dry
Calcium	25000		54	mg/kg dry
Cadmium	0.47		0.32	mg/kg dry
Cobalt	---	U	2.2	mg/kg dry
Chromium	410		0.54	mg/kg dry
Copper	13		1.1	mg/kg dry
Iron	250000		270	mg/kg dry
Potassium	370		54	mg/kg dry
Magnesium	1200		54	mg/kg dry
Manganese	65		0.54	mg/kg dry
Sodium	31000		110	mg/kg dry
Nickel	4.9		2.2	mg/kg dry
Lead	38		0.86	mg/kg dry
Antimony	---	U	2.2	mg/kg dry
Selenium	---	U	2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	800		2.2	mg/kg dry
Zinc	15		2.2	mg/kg dry
Field ID: RMA-WST16B			**Sample ID: 1109065-09**	
Mercury CVAA				
Mercury	0.201		0.040	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST16B			**Sample ID: 1109065-09**	
Metals ICP				
Silver	1.1		0.49	mg/kg dry
Arsenic	7.0		0.79	mg/kg dry
Barium	77		9.9	mg/kg dry
Beryllium	---	U	0.30	mg/kg dry
Calcium	15000		49	mg/kg dry
Cadmium	0.59		0.30	mg/kg dry
Cobalt	---	U	2.0	mg/kg dry
Chromium	420		0.49	mg/kg dry
Copper	13		0.99	mg/kg dry
Iron	230000		250	mg/kg dry
Potassium	460		49	mg/kg dry
Magnesium	1700		49	mg/kg dry
Manganese	150		0.49	mg/kg dry
Sodium	40000		99	mg/kg dry
Nickel	6.4		2.0	mg/kg dry
Lead	33		0.79	mg/kg dry
Antimony	---	U	2.0	mg/kg dry
Selenium	---	U	2.0	mg/kg dry
Thallium	---	U	2.0	mg/kg dry
Vanadium	660		2.0	mg/kg dry
Zinc	15		2.0	mg/kg dry
Aluminum	120000		250	mg/kg dry
Field ID: RMA-WST17A			**Sample ID: 1109065-10**	
Mercury CVAA				
Mercury	0.308		0.050	mg/kg dry
Metals ICP				
Silver	1.3		0.57	mg/kg dry
Arsenic	7.7		0.91	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST17A			**Sample ID: 1109065-10**	
Metals ICP				
Barium	80		11	mg/kg dry
Beryllium	---	U	0.34	mg/kg dry
Calcium	22000		57	mg/kg dry
Cadmium	0.35		0.34	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	440		0.57	mg/kg dry
Copper	13		1.1	mg/kg dry
Potassium	440		57	mg/kg dry
Magnesium	720		57	mg/kg dry
Manganese	47		0.57	mg/kg dry
Sodium	37000		110	mg/kg dry
Nickel	5.6		2.3	mg/kg dry
Lead	34		0.91	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	640		2.3	mg/kg dry
Zinc	12		2.3	mg/kg dry
Aluminum	140000		290	mg/kg dry
Iron	210000		290	mg/kg dry
Field ID: RMA-WST17B			**Sample ID: 1109065-11**	
Mercury CVAA				
Mercury	0.159		0.047	mg/kg dry
Metals ICP				
Silver	0.90		0.53	mg/kg dry
Aluminum	71000		11	mg/kg dry
Arsenic	5.8		0.84	mg/kg dry
Barium	80		11	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-WST17B			**Sample ID: 1109065-11**	
Metals ICP				
Beryllium	---	U	0.32	mg/kg dry
Calcium	80000		53	mg/kg dry
Cadmium	---	U	0.32	mg/kg dry
Cobalt	---	U	2.1	mg/kg dry
Chromium	400		0.53	mg/kg dry
Copper	14		1.1	mg/kg dry
Potassium	600		53	mg/kg dry
Magnesium	2500		53	mg/kg dry
Manganese	97		0.53	mg/kg dry
Sodium	34000		110	mg/kg dry
Nickel	6.4		2.1	mg/kg dry
Lead	30		0.84	mg/kg dry
Antimony	---	U	2.1	mg/kg dry
Selenium	---	U	2.1	mg/kg dry
Thallium	---	U	2.1	mg/kg dry
Vanadium	520		2.1	mg/kg dry
Zinc	15		2.1	mg/kg dry
Iron	170000		260	mg/kg dry
Field ID: RMB-WST24A			**Sample ID: 1109065-12**	
Mercury CVAA				
Mercury	---	U	0.053	mg/kg dry
Metals ICP				
Silver	---	U	0.99	mg/kg dry
Aluminum	52000		20	mg/kg dry
Arsenic	---	U	1.6	mg/kg dry
Barium	---	U	20	mg/kg dry
Beryllium	---	U	0.59	mg/kg dry
Calcium	1800		99	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST24A			**Sample ID: 1109065-12**	
Metals ICP				
Cadmium	---	U	0.59	mg/kg dry
Cobalt	---	U	4.0	mg/kg dry
Chromium	16		0.99	mg/kg dry
Copper	---	U	2.0	mg/kg dry
Potassium	---	U	99	mg/kg dry
Magnesium	190		99	mg/kg dry
Manganese	39		0.99	mg/kg dry
Sodium	710		200	mg/kg dry
Nickel	---	U	4.0	mg/kg dry
Lead	2.1		1.6	mg/kg dry
Antimony	---	U	4.0	mg/kg dry
Selenium	---	U	4.0	mg/kg dry
Thallium	---	U	4.0	mg/kg dry
Vanadium	37		4.0	mg/kg dry
Zinc	---	U	4.0	mg/kg dry
Iron	330000		500	mg/kg dry
Field ID: RMB-WST28A			**Sample ID: 1109065-13**	
Mercury CVAA				
Mercury	0.105		0.063	mg/kg dry
Metals ICP				
Silver	---	U	0.55	mg/kg dry
Arsenic	12		0.87	mg/kg dry
Barium	110		11	mg/kg dry
Beryllium	---	U	0.33	mg/kg dry
Calcium	26000		55	mg/kg dry
Cadmium	---	U	0.33	mg/kg dry
Cobalt	3.0		2.2	mg/kg dry
Chromium	740		0.55	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST28A			**Sample ID: 1109065-13**	
Metals ICP				
Copper	17		1.1	mg/kg dry
Potassium	860		55	mg/kg dry
Magnesium	7000		55	mg/kg dry
Manganese	52		0.55	mg/kg dry
Sodium	48000		110	mg/kg dry
Nickel	13		2.2	mg/kg dry
Lead	66		0.87	mg/kg dry
Antimony	---	U	2.2	mg/kg dry
Selenium	---	U	2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	590		2.2	mg/kg dry
Zinc	---	U	2.2	mg/kg dry
Aluminum	140000		270	mg/kg dry
Iron	130000		270	mg/kg dry
Field ID: RMB-WST29A			**Sample ID: 1109065-14**	
Mercury CVAA				
Mercury	---	U	0.045	mg/kg dry
Metals ICP				
Silver	1.3		0.46	mg/kg dry
Aluminum	48000		9.2	mg/kg dry
Arsenic	12		0.74	mg/kg dry
Barium	41		9.2	mg/kg dry
Beryllium	---	U	0.28	mg/kg dry
Calcium	150000		1200	mg/kg dry
Cadmium	---	U	0.28	mg/kg dry
Cobalt	2.4		1.8	mg/kg dry
Chromium	250		0.46	mg/kg dry
Copper	13		0.92	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST29A			**Sample ID: 1109065-14**	
Metals ICP				
Potassium	620		46	mg/kg dry
Magnesium	3600		46	mg/kg dry
Manganese	330		0.46	mg/kg dry
Sodium	23000		92	mg/kg dry
Nickel	6.2		1.8	mg/kg dry
Lead	31		0.74	mg/kg dry
Antimony	---	U	1.8	mg/kg dry
Selenium	---	U	1.8	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Vanadium	430		1.8	mg/kg dry
Zinc	20		1.8	mg/kg dry
Iron	140000		230	mg/kg dry
Field ID: RMB-WST30A			**Sample ID: 1109065-15**	
Mercury CVAA				
Mercury	0.070		0.049	mg/kg dry
Metals ICP				
Silver	0.73		0.58	mg/kg dry
Arsenic	9.7		0.92	mg/kg dry
Barium	76		12	mg/kg dry
Beryllium	---	U	0.35	mg/kg dry
Calcium	14000		58	mg/kg dry
Cadmium	---	U	0.35	mg/kg dry
Cobalt	3.8		2.3	mg/kg dry
Chromium	890		0.58	mg/kg dry
Copper	18		1.2	mg/kg dry
Potassium	950		58	mg/kg dry
Magnesium	2600		58	mg/kg dry
Manganese	98		0.58	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST30A			**Sample ID: 1109065-15**	
Metals ICP				
Sodium	63000		120	mg/kg dry
Nickel	14		2.3	mg/kg dry
Lead	55		0.92	mg/kg dry
Antimony	---	U	2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	560		2.3	mg/kg dry
Zinc	---	U	2.3	mg/kg dry
Aluminum	150000		290	mg/kg dry
Iron	130000		290	mg/kg dry
Field ID: RMB-WST30B			**Sample ID: 1109065-16**	
Mercury CVAA				
Mercury	---	U	0.069	mg/kg dry
Metals ICP				
Silver	1.6		1.3	mg/kg dry
Aluminum	84000		27	mg/kg dry
Arsenic	9.2		2.1	mg/kg dry
Barium	---	U	27	mg/kg dry
Beryllium	---	U	0.80	mg/kg dry
Calcium	9500		130	mg/kg dry
Cadmium	---	U	0.80	mg/kg dry
Cobalt	---	U	5.3	mg/kg dry
Chromium	570		1.3	mg/kg dry
Copper	---	U	2.7	mg/kg dry
Iron	170000		67	mg/kg dry
Potassium	670		130	mg/kg dry
Magnesium	430		130	mg/kg dry
Manganese	120		1.3	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST30B			**Sample ID: 1109065-16**	
Metals ICP				
Sodium	58000		270	mg/kg dry
Nickel	22		5.3	mg/kg dry
Lead	61		2.1	mg/kg dry
Antimony	---	U	5.3	mg/kg dry
Selenium	---	U	5.3	mg/kg dry
Thallium	---	U	5.3	mg/kg dry
Vanadium	480		5.3	mg/kg dry
Zinc	---	U	5.3	mg/kg dry
Field ID: RMB-WST32A			**Sample ID: 1109065-17**	
Mercury CVAA				
Mercury	0.136		0.054	mg/kg dry
Metals ICP				
Silver	1.5		0.62	mg/kg dry
Aluminum	93000		12	mg/kg dry
Arsenic	16		0.99	mg/kg dry
Barium	24		12	mg/kg dry
Beryllium	---	U	0.37	mg/kg dry
Calcium	35000		62	mg/kg dry
Cadmium	---	U	0.37	mg/kg dry
Cobalt	---	U	2.5	mg/kg dry
Chromium	340		0.62	mg/kg dry
Copper	16		1.2	mg/kg dry
Potassium	590		62	mg/kg dry
Magnesium	31000		62	mg/kg dry
Manganese	280		0.62	mg/kg dry
Sodium	33000		120	mg/kg dry
Nickel	6.8		2.5	mg/kg dry
Lead	36		0.99	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST32A			**Sample ID: 1109065-17**	
Metals ICP				
Antimony	---	U	2.5	mg/kg dry
Selenium	---	U	2.5	mg/kg dry
Thallium	---	U	2.5	mg/kg dry
Vanadium	510		2.5	mg/kg dry
Zinc	15		2.5	mg/kg dry
Iron	170000		310	mg/kg dry
Field ID: RMB-WST34A			**Sample ID: 1109065-18**	
Mercury CVAA				
Mercury	0.045		0.043	mg/kg dry
Metals ICP				
Silver	1.8		0.54	mg/kg dry
Aluminum	60000		11	mg/kg dry
Arsenic	18		0.87	mg/kg dry
Barium	46		11	mg/kg dry
Beryllium	---	U	0.32	mg/kg dry
Calcium	13000		54	mg/kg dry
Cadmium	---	U	0.32	mg/kg dry
Cobalt	---	U	2.2	mg/kg dry
Chromium	1000		0.54	mg/kg dry
Copper	20		1.1	mg/kg dry
Iron	210000		270	mg/kg dry
Potassium	340		54	mg/kg dry
Magnesium	740		54	mg/kg dry
Manganese	93		0.54	mg/kg dry
Sodium	26000		110	mg/kg dry
Nickel	5.6		2.2	mg/kg dry
Lead	110		0.87	mg/kg dry
Antimony	---	U	2.2	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST34A			**Sample ID: 1109065-18**	
Metals ICP				
Selenium	---	U	2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	1500		2.2	mg/kg dry
Zinc	11		2.2	mg/kg dry
Field ID: RMB-WST36A			**Sample ID: 1109065-19**	
Mercury CVAA				
Mercury	0.112		0.053	mg/kg dry
Metals ICP				
Silver	---	U	0.62	mg/kg dry
Arsenic	9.3		0.99	mg/kg dry
Barium	100		12	mg/kg dry
Beryllium	---	U	0.37	mg/kg dry
Calcium	17000		62	mg/kg dry
Cadmium	---	U	0.37	mg/kg dry
Cobalt	2.7		2.5	mg/kg dry
Chromium	850		0.62	mg/kg dry
Copper	14		1.2	mg/kg dry
Potassium	1100		62	mg/kg dry
Magnesium	8000		62	mg/kg dry
Manganese	150		0.62	mg/kg dry
Sodium	47000		120	mg/kg dry
Nickel	13		2.5	mg/kg dry
Lead	58		0.99	mg/kg dry
Antimony	---	U	2.5	mg/kg dry
Selenium	---	U	2.5	mg/kg dry
Thallium	---	U	2.5	mg/kg dry
Vanadium	450		2.5	mg/kg dry
Zinc	---	U	2.5	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST36A			**Sample ID: 1109065-19**	
Metals ICP				
Aluminum	150000		310	mg/kg dry
Iron	110000		310	mg/kg dry
Field ID: RMB-WST38A			**Sample ID: 1109065-20**	
Mercury CVAA				
Mercury	0.089		0.067	mg/kg dry
Metals ICP				
Silver	---	U	1.5	mg/kg dry
Aluminum	91000		29	mg/kg dry
Arsenic	6.0		1.2	mg/kg dry
Barium	110		15	mg/kg dry
Beryllium	---	U	0.44	mg/kg dry
Calcium	23000		73	mg/kg dry
Cadmium	---	U	0.44	mg/kg dry
Cobalt	2.9		2.9	mg/kg dry
Chromium	1800		0.73	mg/kg dry
Copper	22		1.5	mg/kg dry
Iron	67000		29	mg/kg dry
Potassium	850		73	mg/kg dry
Magnesium	12000		73	mg/kg dry
Manganese	65		0.73	mg/kg dry
Sodium	49000		150	mg/kg dry
Nickel	14		2.9	mg/kg dry
Lead	73		1.2	mg/kg dry
Antimony	3.3		2.9	mg/kg dry
Selenium	---	U	2.9	mg/kg dry
Thallium	---	U	2.9	mg/kg dry
Vanadium	590		2.9	mg/kg dry
Zinc	16		5.9	mg/kg dry

Project:St. Croix Alumina - 1109036

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST39A			**Sample ID: 1109065-21**	
Mercury CVAA				
Mercury	---	U	0.065	mg/kg dry
Metals ICP				
Silver	---	U	0.66	mg/kg dry
Aluminum	67000		13	mg/kg dry
Arsenic	21		1.1	mg/kg dry
Barium	59		13	mg/kg dry
Beryllium	---	U	0.40	mg/kg dry
Calcium	26000		66	mg/kg dry
Cadmium	0.57		0.40	mg/kg dry
Cobalt	4.9		2.6	mg/kg dry
Chromium	840	J	0.66	mg/kg dry
Copper	18		1.3	mg/kg dry
Potassium	1100		66	mg/kg dry
Magnesium	11000		66	mg/kg dry
Manganese	75	J	0.66	mg/kg dry
Sodium	47000		130	mg/kg dry
Nickel	15		2.6	mg/kg dry
Lead	63		1.1	mg/kg dry
Antimony	3.9		2.6	mg/kg dry
Selenium	---	U	2.6	mg/kg dry
Thallium	---	U	2.6	mg/kg dry
Vanadium	770	J	2.6	mg/kg dry
Zinc	8.2		2.6	mg/kg dry
Iron	93000		66	mg/kg dry
Field ID: RMB-WST39B			**Sample ID: 1109065-22**	
Mercury CVAA				
Mercury	0.055		0.051	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST39B			**Sample ID: 1109065-22**	
Metals ICP				
Silver	---	U	0.67	mg/kg dry
Aluminum	77000		27	mg/kg dry
Arsenic	9.8		2.2	mg/kg dry
Barium	76		27	mg/kg dry
Beryllium	---	U	0.81	mg/kg dry
Calcium	17000		130	mg/kg dry
Cadmium	---	U	0.81	mg/kg dry
Cobalt	---	U	5.4	mg/kg dry
Chromium	720		1.3	mg/kg dry
Copper	14		2.7	mg/kg dry
Potassium	700		130	mg/kg dry
Magnesium	6500		130	mg/kg dry
Manganese	94		1.3	mg/kg dry
Sodium	46000		270	mg/kg dry
Nickel	14		5.4	mg/kg dry
Lead	59		2.2	mg/kg dry
Antimony	---	U	5.4	mg/kg dry
Selenium	---	U	5.4	mg/kg dry
Thallium	---	U	5.4	mg/kg dry
Vanadium	500		5.4	mg/kg dry
Zinc	8.6		5.4	mg/kg dry
Iron	170000		170	mg/kg dry
Field ID: RMB-WST40A			**Sample ID: 1109065-23**	
Mercury CVAA				
Mercury	0.348		0.047	mg/kg dry
Metals ICP				
Silver	---	U	0.93	mg/kg dry
Aluminum	18000		19	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST40A			**Sample ID: 1109065-23**	
Metals ICP				
Arsenic	15		1.5	mg/kg dry
Barium	---	U	19	mg/kg dry
Beryllium	---	U	0.56	mg/kg dry
Calcium	800		93	mg/kg dry
Cadmium	3.8		0.56	mg/kg dry
Cobalt	---	U	3.7	mg/kg dry
Chromium	290		0.93	mg/kg dry
Copper	30		1.9	mg/kg dry
Iron	490000		120	mg/kg dry
Potassium	---	U	93	mg/kg dry
Magnesium	1800		93	mg/kg dry
Manganese	11		0.93	mg/kg dry
Sodium	630		190	mg/kg dry
Nickel	12		3.7	mg/kg dry
Lead	42		1.5	mg/kg dry
Antimony	---	U	3.7	mg/kg dry
Selenium	---	U	3.7	mg/kg dry
Thallium	---	U	3.7	mg/kg dry
Vanadium	1200		3.7	mg/kg dry
Zinc	5.1		3.7	mg/kg dry
Field ID: RMB-WST22A			**Sample ID: 1109071-01**	
Mercury CVAA				
Mercury	---	U	0.057	mg/kg dry
Metals ICP				
Silver	---	U	2.6	mg/kg dry
Aluminum	68000		52	mg/kg dry
Arsenic	13		4.2	mg/kg dry
Barium	---	U	52	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST22A			**Sample ID: 1109071-01**	
Metals ICP				
Beryllium	---	U	1.6	mg/kg dry
Calcium	6900		260	mg/kg dry
Cadmium	---	U	1.6	mg/kg dry
Cobalt	---	U	10	mg/kg dry
Chromium	350		2.6	mg/kg dry
Copper	15		5.2	mg/kg dry
Iron	290000		160	mg/kg dry
Potassium	480		260	mg/kg dry
Magnesium	430		260	mg/kg dry
Manganese	860		2.6	mg/kg dry
Sodium	66000		520	mg/kg dry
Nickel	12		10	mg/kg dry
Lead	55		4.2	mg/kg dry
Antimony	---	U	10	mg/kg dry
Selenium	---	U	10	mg/kg dry
Thallium	---	U	10	mg/kg dry
Vanadium	630		10	mg/kg dry
Zinc	22		10	mg/kg dry
Field ID: RMB-WST22B			**Sample ID: 1109071-02**	
Mercury CVAA				
Mercury	---	U	0.046	mg/kg dry
Metals ICP				
Silver	---	U	2.2	mg/kg dry
Aluminum	57000		44	mg/kg dry
Arsenic	7.4		3.6	mg/kg dry
Barium	---	U	44	mg/kg dry
Beryllium	---	U	1.3	mg/kg dry
Calcium	5300		220	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST22B			**Sample ID: 1109071-02**	
Metals ICP				
Cadmium	---	U	1.3	mg/kg dry
Cobalt	---	U	8.9	mg/kg dry
Chromium	280		2.2	mg/kg dry
Copper	21		4.4	mg/kg dry
Iron	400000		140	mg/kg dry
Potassium	220		220	mg/kg dry
Magnesium	400		220	mg/kg dry
Manganese	3100		2.2	mg/kg dry
Sodium	29000		440	mg/kg dry
Nickel	9.1		8.9	mg/kg dry
Lead	59		3.6	mg/kg dry
Antimony	---	U	8.9	mg/kg dry
Selenium	---	U	8.9	mg/kg dry
Thallium	---	U	8.9	mg/kg dry
Vanadium	860		8.9	mg/kg dry
Zinc	60		8.9	mg/kg dry
Field ID: RMB-WST23A			**Sample ID: 1109071-03**	
Mercury CVAA				
Mercury	0.080		0.047	mg/kg dry
Metals ICP				
Silver	0.82		0.57	mg/kg dry
Aluminum	44000		11	mg/kg dry
Arsenic	17		0.91	mg/kg dry
Barium	59		11	mg/kg dry
Beryllium	0.51		0.34	mg/kg dry
Calcium	13000		57	mg/kg dry
Cadmium	1.0		0.34	mg/kg dry
Cobalt	3.4		2.3	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST23A			**Sample ID: 1109071-03**	
Metals ICP				
Chromium	440		0.57	mg/kg dry
Copper	21		1.1	mg/kg dry
Iron	290000		140	mg/kg dry
Potassium	190		57	mg/kg dry
Magnesium	490		57	mg/kg dry
Manganese	650		0.57	mg/kg dry
Sodium	32000		110	mg/kg dry
Nickel	6.3		2.3	mg/kg dry
Lead	66		0.91	mg/kg dry
Antimony	7.6		2.3	mg/kg dry
Selenium	3.1		2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	910		2.3	mg/kg dry
Zinc	30		2.3	mg/kg dry
Field ID: RMB-WST23B			**Sample ID: 1109071-04**	
Mercury CVAA				
Mercury	---	U	0.048	mg/kg dry
Metals ICP				
Silver	---	U	1.9	mg/kg dry
Aluminum	50000		38	mg/kg dry
Arsenic	10		3.0	mg/kg dry
Barium	---	U	38	mg/kg dry
Beryllium	---	U	1.1	mg/kg dry
Calcium	3900		190	mg/kg dry
Cadmium	---	U	1.1	mg/kg dry
Cobalt	---	U	7.6	mg/kg dry
Chromium	230		1.9	mg/kg dry
Copper	16		3.8	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST23B			**Sample ID: 1109071-04**	
Metals ICP				
Iron	360000		120	mg/kg dry
Potassium	---	U	190	mg/kg dry
Magnesium	360		190	mg/kg dry
Manganese	2300		1.9	mg/kg dry
Sodium	34000		380	mg/kg dry
Nickel	8.5		7.6	mg/kg dry
Lead	45		3.0	mg/kg dry
Antimony	---	U	7.6	mg/kg dry
Selenium	---	U	7.6	mg/kg dry
Thallium	---	U	7.6	mg/kg dry
Vanadium	760		7.6	mg/kg dry
Zinc	42		7.6	mg/kg dry
Field ID: RMB-WST23C			**Sample ID: 1109071-05**	
Mercury CVAA				
Mercury	---	U	0.055	mg/kg dry
Metals ICP				
Silver	---	U	2.6	mg/kg dry
Aluminum	52000		52	mg/kg dry
Arsenic	12		4.1	mg/kg dry
Barium	---	U	52	mg/kg dry
Beryllium	---	U	1.5	mg/kg dry
Calcium	4400		260	mg/kg dry
Cadmium	---	U	1.5	mg/kg dry
Cobalt	---	U	10	mg/kg dry
Chromium	240		2.6	mg/kg dry
Copper	17		5.2	mg/kg dry
Iron	390000		160	mg/kg dry
Potassium	---	U	260	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST23C			**Sample ID: 1109071-05**	
Metals ICP				
Magnesium	380		260	mg/kg dry
Manganese	3000		2.6	mg/kg dry
Sodium	35000		520	mg/kg dry
Nickel	---	U	10	mg/kg dry
Lead	47		4.1	mg/kg dry
Antimony	---	U	10	mg/kg dry
Selenium	---	U	10	mg/kg dry
Thallium	---	U	10	mg/kg dry
Vanadium	820		10	mg/kg dry
Zinc	51		10	mg/kg dry
Field ID: RMB-WST28B			**Sample ID: 1109071-06**	
Mercury CVAA				
Mercury	0.070		0.059	mg/kg dry
Metals ICP				
Silver	---	U	2.9	mg/kg dry
Aluminum	98000		59	mg/kg dry
Arsenic	16		4.7	mg/kg dry
Barium	---	U	59	mg/kg dry
Beryllium	---	U	1.8	mg/kg dry
Calcium	7700		290	mg/kg dry
Cadmium	---	U	1.8	mg/kg dry
Cobalt	---	U	12	mg/kg dry
Chromium	290		2.9	mg/kg dry
Copper	12		5.9	mg/kg dry
Iron	210000		29	mg/kg dry
Potassium	470		290	mg/kg dry
Magnesium	1700		290	mg/kg dry
Manganese	530		2.9	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST28B			**Sample ID: 1109071-06**	
Metals ICP				
Sodium	70000		590	mg/kg dry
Nickel	---	U	12	mg/kg dry
Lead	46		4.7	mg/kg dry
Antimony	---	U	12	mg/kg dry
Selenium	---	U	12	mg/kg dry
Thallium	---	U	12	mg/kg dry
Vanadium	500		12	mg/kg dry
Zinc	17		12	mg/kg dry
Field ID: RMB-WST29B			**Sample ID: 1109071-07**	
Mercury CVAA				
Mercury	---	U	0.073	mg/kg dry
Metals ICP				
Silver	---	U	2.8	mg/kg dry
Aluminum	95000		55	mg/kg dry
Arsenic	17		4.4	mg/kg dry
Barium	---	U	55	mg/kg dry
Beryllium	---	U	1.7	mg/kg dry
Calcium	6200		280	mg/kg dry
Cadmium	---	U	1.7	mg/kg dry
Cobalt	---	U	11	mg/kg dry
Chromium	180		2.8	mg/kg dry
Copper	15		5.5	mg/kg dry
Iron	210000		28	mg/kg dry
Potassium	320		280	mg/kg dry
Magnesium	540		280	mg/kg dry
Manganese	680		2.8	mg/kg dry
Sodium	68000		550	mg/kg dry
Nickel	---	U	11	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST29B			**Sample ID: 1109071-07**	
Metals ICP				
Lead	41		4.4	mg/kg dry
Antimony	---	U	11	mg/kg dry
Selenium	---	U	11	mg/kg dry
Thallium	---	U	11	mg/kg dry
Vanadium	460		11	mg/kg dry
Zinc	21		11	mg/kg dry
Field ID: RMB-WST34B			**Sample ID: 1109071-08**	
Mercury CVAA				
Mercury	---	U	0.048	mg/kg dry
Metals ICP				
Silver	---	U	2.8	mg/kg dry
Aluminum	68000		56	mg/kg dry
Arsenic	7.4		4.5	mg/kg dry
Barium	---	U	56	mg/kg dry
Beryllium	---	U	1.7	mg/kg dry
Calcium	15000		280	mg/kg dry
Cadmium	---	U	1.7	mg/kg dry
Cobalt	---	U	11	mg/kg dry
Chromium	500		2.8	mg/kg dry
Copper	16		5.6	mg/kg dry
Iron	220000		28	mg/kg dry
Potassium	---	U	280	mg/kg dry
Magnesium	1000		280	mg/kg dry
Manganese	310		2.8	mg/kg dry
Sodium	45000		560	mg/kg dry
Nickel	---	U	11	mg/kg dry
Lead	54		4.5	mg/kg dry
Antimony	---	U	11	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST34B			**Sample ID: 1109071-08**	
Metals ICP				
Selenium	---	U	11	mg/kg dry
Thallium	---	U	11	mg/kg dry
Vanadium	610		11	mg/kg dry
Zinc	13		11	mg/kg dry
Field ID: RMB-WST37A			**Sample ID: 1109071-09**	
Mercury CVAA				
Mercury	0.066		0.047	mg/kg dry
Metals ICP				
Silver	1.5		0.66	mg/kg dry
Aluminum	55000		13	mg/kg dry
Arsenic	12		1.0	mg/kg dry
Barium	41		13	mg/kg dry
Beryllium	---	U	0.39	mg/kg dry
Calcium	20000		66	mg/kg dry
Cadmium	0.50		0.39	mg/kg dry
Cobalt	2.9		2.6	mg/kg dry
Chromium	630		0.66	mg/kg dry
Copper	18		1.3	mg/kg dry
Potassium	160		66	mg/kg dry
Magnesium	680		66	mg/kg dry
Manganese	370		0.66	mg/kg dry
Sodium	20000		130	mg/kg dry
Nickel	5.7		2.6	mg/kg dry
Lead	80		1.0	mg/kg dry
Antimony	7.5		2.6	mg/kg dry
Selenium	---	U	2.6	mg/kg dry
Thallium	---	U	2.6	mg/kg dry
Vanadium	790		2.6	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMB-WST37A			**Sample ID: 1109071-09**	
Metals ICP				
Zinc	18		2.6	mg/kg dry
Iron	240000		160	mg/kg dry
Field ID: RMB-WST37B			**Sample ID: 1109071-10**	
Mercury CVAA				
Mercury	0.075		0.060	mg/kg dry
Metals ICP				
Silver	---	U	3.1	mg/kg dry
Aluminum	70000		62	mg/kg dry
Arsenic	7.8		5.0	mg/kg dry
Barium	79		62	mg/kg dry
Beryllium	---	U	1.9	mg/kg dry
Calcium	24000		310	mg/kg dry
Cadmium	---	U	1.9	mg/kg dry
Cobalt	---	U	12	mg/kg dry
Chromium	970		3.1	mg/kg dry
Copper	16		6.2	mg/kg dry
Iron	180000		31	mg/kg dry
Potassium	---	U	310	mg/kg dry
Magnesium	990		310	mg/kg dry
Manganese	240		3.1	mg/kg dry
Sodium	45000		620	mg/kg dry
Nickel	12		12	mg/kg dry
Lead	67		5.0	mg/kg dry
Antimony	---	U	12	mg/kg dry
Selenium	---	U	12	mg/kg dry
Thallium	---	U	12	mg/kg dry
Vanadium	600		12	mg/kg dry
Zinc	17		12	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: MW-RIN03			**Sample ID: 1109072-01**	
Sanitary				
Chloride	---	U	1.0	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	---	U	1000	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: SCA-GW02			**Sample ID: 1109072-02**	
Sanitary				
Chloride	350		10	mg/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW02			**Sample ID: 1109072-02**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	74000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	30000		1000	ug/L
Magnesium	75000		500	ug/L
Manganese	16		5.0	ug/L
Sodium	120000		1000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	150		100	ug/L
Iron	290		50	ug/L
Field ID: SCA-GW02F			**Sample ID: 1109072-03**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW02F			**Sample ID: 1109072-03**	
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	69000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	30000		1000	ug/L
Magnesium	77000		500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	110000		1000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: SCA-GW03			**Sample ID: 1109072-04**	
Sanitary				
Chloride	770		20	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW03			**Sample ID: 1109072-04**	
Metals ICP				
Arsenic	---	U	8.0	ug/L
Barium	140		100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	78000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	18000		1000	ug/L
Magnesium	57000		500	ug/L
Manganese	640		5.0	ug/L
Sodium	490000		1000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	690		50	ug/L
Field ID: SCA-GW03F			**Sample ID: 1109072-05**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	130		100	ug/L
Beryllium	---	U	3.0	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW03F			**Sample ID: 1109072-05**	
Metals ICP				
Calcium	77000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	17000		1000	ug/L
Magnesium	54000		500	ug/L
Manganese	630		5.0	ug/L
Sodium	480000		1000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	710		50	ug/L
Field ID: SCA-GW04			**Sample ID: 1109072-06**	
Sanitary				
Chloride	5800		250	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW04			**Sample ID: 1109072-06**	
Metals ICP				
Calcium	93000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	120000		1000	ug/L
Magnesium	250000		500	ug/L
Manganese	35		5.0	ug/L
Sodium	3900000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: SCA-GW04F			**Sample ID: 1109072-07**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	92000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW04F			**Sample ID: 1109072-07**	
Metals ICP				
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	120000		1000	ug/L
Magnesium	260000		500	ug/L
Manganese	37		5.0	ug/L
Sodium	3900000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: SCA-GW07			**Sample ID: 1109072-08**	
Sanitary				
Chloride	660		100	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	17	J	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	66000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW07			**Sample ID: 1109072-08**	
Metals ICP				
Chromium	41		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	17000		1000	ug/L
Magnesium	51000		500	ug/L
Manganese	35		5.0	ug/L
Sodium	1700000		25000	ug/L
Nickel	170		20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U J	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	77		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	940		50	ug/L
Field ID: SCA-GW07F			**Sample ID: 1109072-09**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	8.3 J		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	77000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	18000		1000	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW07F			**Sample ID: 1109072-09**	
Metals ICP				
Magnesium	58000		500	ug/L
Manganese	50		5.0	ug/L
Sodium	1700000		25000	ug/L
Nickel	170		20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	42		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: SCA-GW08			**Sample ID: 1109072-10**	
Sanitary				
Chloride	770		100	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	360		100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	160000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	24000		1000	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW08			**Sample ID: 1109072-10**	
Metals ICP				
Magnesium	170000		500	ug/L
Manganese	350		5.0	ug/L
Sodium	1200000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	1500		50	ug/L
Field ID: SCA-GW08F			**Sample ID: 1109072-11**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	360		100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	170000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	24000		1000	ug/L
Magnesium	180000		500	ug/L
Manganese	340		5.0	ug/L
Sodium	1300000		25000	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW08F			**Sample ID: 1109072-11**	
Metals ICP				
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	1100		50	ug/L
Field ID: WST-RIN05			**Sample ID: 1109072-12**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	---	U	1000	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	---	U	1000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: WST-RIN05			**Sample ID: 1109072-12**	
Metals ICP				
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: BG-S16A			**Sample ID: 1109072-13**	
Mercury CVAA				
Mercury	---	U	0.051	mg/kg dry
Metals ICP				
Silver	---	U	0.53	mg/kg dry
Aluminum	23000		11	mg/kg dry
Arsenic	2.9		0.84	mg/kg dry
Barium	120		11	mg/kg dry
Beryllium	---	U	0.32	mg/kg dry
Calcium	15000		53	mg/kg dry
Cadmium	---	U	0.32	mg/kg dry
Cobalt	20		2.1	mg/kg dry
Chromium	28		0.53	mg/kg dry
Copper	59		1.1	mg/kg dry
Iron	30000		5.3	mg/kg dry
Potassium	2400		53	mg/kg dry
Magnesium	6500		53	mg/kg dry
Manganese	1200	J	0.53	mg/kg dry
Sodium	890		110	mg/kg dry
Nickel	14		2.1	mg/kg dry
Lead	5.8		0.84	mg/kg dry
Antimony	---	U	2.1	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: BG-S16A			**Sample ID: 1109072-13**	
Metals ICP				
Selenium	---	U	2.1	mg/kg dry
Thallium	---	U J	2.1	mg/kg dry
Vanadium	110		2.1	mg/kg dry
Zinc	47		2.1	mg/kg dry
Field ID: FBS-WST44A			**Sample ID: 1109072-14**	
Mercury CVAA				
Mercury	0.136		0.046	mg/kg dry
Metals ICP				
Silver	0.81		0.55	mg/kg dry
Arsenic	24		0.89	mg/kg dry
Barium	13		11	mg/kg dry
Beryllium	---	U	0.33	mg/kg dry
Calcium	36000		55	mg/kg dry
Cadmium	0.87		0.33	mg/kg dry
Cobalt	---	U	2.2	mg/kg dry
Chromium	140		0.55	mg/kg dry
Copper	14		1.1	mg/kg dry
Potassium	190		55	mg/kg dry
Magnesium	1200		55	mg/kg dry
Manganese	38		0.55	mg/kg dry
Sodium	55000		110	mg/kg dry
Nickel	4.7		2.2	mg/kg dry
Lead	18		0.89	mg/kg dry
Antimony	---	U	2.2	mg/kg dry
Selenium	2.4		2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	460		2.2	mg/kg dry
Zinc	120		2.2	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: FBS-WST44A			**Sample ID: 1109072-14**	
Metals ICP				
Aluminum	100000		280	mg/kg dry
Iron	110000		140	mg/kg dry
Field ID: FBS-WST45A			**Sample ID: 1109072-15**	
Mercury CVAA				
Mercury	0.165		0.058	mg/kg dry
Metals ICP				
Silver	1.2		0.58	mg/kg dry
Aluminum	76000		12	mg/kg dry
Arsenic	12		0.92	mg/kg dry
Barium	12		12	mg/kg dry
Beryllium	---	U	0.35	mg/kg dry
Calcium	12000		58	mg/kg dry
Cadmium	0.65		0.35	mg/kg dry
Cobalt	---	U	2.3	mg/kg dry
Chromium	240		0.58	mg/kg dry
Copper	14		1.2	mg/kg dry
Potassium	140		58	mg/kg dry
Magnesium	200		58	mg/kg dry
Manganese	48		0.58	mg/kg dry
Sodium	50000		120	mg/kg dry
Nickel	5.2		2.3	mg/kg dry
Lead	30		0.92	mg/kg dry
Antimony	6.0		2.3	mg/kg dry
Selenium	3.2		2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	580		2.3	mg/kg dry
Zinc	73		2.3	mg/kg dry
Iron	220000		140	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: FBS-WST45A			**Sample ID: 1109072-15**	
Metals ICP				
Field ID: FBS-WST46A			**Sample ID: 1109072-16**	
Mercury CVAA				
Mercury	0.236		0.055	mg/kg dry
Metals ICP				
Silver	1.2		0.59	mg/kg dry
Aluminum	79000		12	mg/kg dry
Arsenic	47		0.94	mg/kg dry
Barium	13		12	mg/kg dry
Beryllium	---	U	0.35	mg/kg dry
Calcium	9300		59	mg/kg dry
Cadmium	0.56		0.35	mg/kg dry
Cobalt	---	U	2.4	mg/kg dry
Chromium	180		0.59	mg/kg dry
Copper	16		1.2	mg/kg dry
Potassium	320		59	mg/kg dry
Magnesium	450		59	mg/kg dry
Manganese	38		0.59	mg/kg dry
Sodium	110000		3000	mg/kg dry
Nickel	6.1		2.4	mg/kg dry
Lead	25		0.94	mg/kg dry
Antimony	4.1		2.4	mg/kg dry
Selenium	3.1		2.4	mg/kg dry
Thallium	---	U	2.4	mg/kg dry
Vanadium	660		2.4	mg/kg dry
Zinc	200		2.4	mg/kg dry
Iron	140000		150	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-SW57			**Sample ID: 1109072-17**	
Mercury CVAA				
Mercury	0.710		0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Aluminum	280000		100	ug/L
Arsenic	150		8.0	ug/L
Barium	250		100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	16000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	2900		5.0	ug/L
Copper	61		10	ug/L
Potassium	22000		1000	ug/L
Magnesium	4000		500	ug/L
Manganese	190		5.0	ug/L
Sodium	1200000		25000	ug/L
Nickel	31		20	ug/L
Lead	67		8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	54		20	ug/L
Thallium	---	U	20	ug/L
Vanadium	5200		20	ug/L
Zinc	36		20	ug/L
Iron	500000		500	ug/L
Field ID: SCA-GW01			**Sample ID: 1109072-18**	
Sanitary				
Chloride	280		20	mg/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW01			**Sample ID: 1109072-18**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	49000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	5.1		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	13000		1000	ug/L
Magnesium	30000		500	ug/L
Manganese	29		5.0	ug/L
Sodium	330000		1000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	1000		100	ug/L
Iron	1100		50	ug/L
Field ID: SCA-GW01F			**Sample ID: 1109072-19**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW01F			**Sample ID: 1109072-19**	
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	42000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	13000		1000	ug/L
Magnesium	30000		500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	330000		1000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: SCA-GW05			**Sample ID: 1109072-20**	
Sanitary				
Chloride	2300		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW05			**Sample ID: 1109072-20**	
Metals ICP				
Arsenic	180		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	6900		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	28000		1000	ug/L
Magnesium	49000		500	ug/L
Manganese	20		5.0	ug/L
Sodium	2300000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	28		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: SCA-GW05F			**Sample ID: 1109072-21**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	180		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW05F			**Sample ID: 1109072-21**	
Metals ICP				
Calcium	6700		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	28000		1000	ug/L
Magnesium	48000		500	ug/L
Manganese	22		5.0	ug/L
Sodium	2300000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	27		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: SCA-GW09			**Sample ID: 1109072-22**	
Sanitary				
Chloride	15000		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW09			**Sample ID: 1109072-22**	
Metals ICP				
Calcium	340000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	400000		25000	ug/L
Magnesium	1200000		13000	ug/L
Manganese	5400		5.0	ug/L
Sodium	10000000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	61		50	ug/L
Field ID: SCA-GW09F			**Sample ID: 1109072-23**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	---	U	8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	340000		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW09F			**Sample ID: 1109072-23**	
Metals ICP				
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	400000		25000	ug/L
Magnesium	1200000		13000	ug/L
Manganese	5300		5.0	ug/L
Sodium	9900000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	---	U	20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: SCA-GW10			**Sample ID: 1109072-24**	
Sanitary				
Chloride	2200		500	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	110		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	1500		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW10			**Sample ID: 1109072-24**	
Metals ICP				
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	69000		1000	ug/L
Magnesium	13000		500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	3500000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	38		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	340		100	ug/L
Iron	230		50	ug/L
Field ID: SCA-GW10F			**Sample ID: 1109072-25**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	120		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	670		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	70000		1000	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW10F			**Sample ID: 1109072-25**	
Metals ICP				
Magnesium	13000		500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	3500000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	35		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: SCA-GW11			**Sample ID: 1109072-26**	
Sanitary				
Chloride	2500		250	mg/L
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	110		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	1600		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	70000		1000	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW11			**Sample ID: 1109072-26**	
Metals ICP				
Magnesium	13000		500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	3600000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	39		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	350		100	ug/L
Iron	240		50	ug/L
Field ID: SCA-GW11F			**Sample ID: 1109072-27**	
Mercury CVAA				
Mercury	---	U	0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Arsenic	130		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	770		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	---	U	5.0	ug/L
Copper	---	U	10	ug/L
Potassium	76000		1000	ug/L
Magnesium	14000		500	ug/L
Manganese	5.3		5.0	ug/L
Sodium	3700000		25000	ug/L

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW11F			**Sample ID: 1109072-27**	
Metals ICP				
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	---	U	20	ug/L
Thallium	---	U	20	ug/L
Vanadium	37		20	ug/L
Zinc	---	U	20	ug/L
Aluminum	---	U	100	ug/L
Iron	---	U	50	ug/L
Field ID: FBS-WST43A			**Sample ID: 1109072-28**	
Mercury CVAA				
Mercury	0.098		0.040	mg/kg dry
Metals ICP				
Silver	---	U	0.56	mg/kg dry
Aluminum	68000		11	mg/kg dry
Arsenic	6.3		0.90	mg/kg dry
Barium	15		11	mg/kg dry
Beryllium	---	U	0.34	mg/kg dry
Calcium	42000		56	mg/kg dry
Cadmium	0.72		0.34	mg/kg dry
Cobalt	---	U	2.2	mg/kg dry
Chromium	99		0.56	mg/kg dry
Copper	5.9		1.1	mg/kg dry
Potassium	260		56	mg/kg dry
Magnesium	1500		56	mg/kg dry
Manganese	29		0.56	mg/kg dry
Sodium	5100		110	mg/kg dry
Nickel	2.2		2.2	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: FBS-WST43A			**Sample ID: 1109072-28**	
Metals ICP				
Lead	9.6		0.90	mg/kg dry
Antimony	---	U	2.2	mg/kg dry
Selenium	---	U	2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	180		2.2	mg/kg dry
Zinc	140		2.2	mg/kg dry
Iron	62000		56	mg/kg dry
Field ID: RMA-SD57			**Sample ID: 1109072-29**	
Mercury CVAA				
Mercury	0.175		0.043	mg/kg dry
Metals ICP				
Silver	1.3		0.55	mg/kg dry
Aluminum	34000		11	mg/kg dry
Arsenic	18		0.88	mg/kg dry
Barium	49		11	mg/kg dry
Beryllium	---	U	0.33	mg/kg dry
Calcium	52000		55	mg/kg dry
Cadmium	0.34		0.33	mg/kg dry
Cobalt	---	U	2.2	mg/kg dry
Chromium	300		0.55	mg/kg dry
Copper	15		1.1	mg/kg dry
Iron	290000		140	mg/kg dry
Potassium	220		55	mg/kg dry
Magnesium	1400		55	mg/kg dry
Manganese	130		0.55	mg/kg dry
Sodium	13000		110	mg/kg dry
Nickel	2.9		2.2	mg/kg dry
Lead	39		0.88	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-SD57			**Sample ID: 1109072-29**	
Metals ICP				
Antimony	7.2		2.2	mg/kg dry
Selenium	3.7		2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry
Vanadium	860		2.2	mg/kg dry
Zinc	12		2.2	mg/kg dry
Field ID: RMA-SD58			**Sample ID: 1109072-30**	
Mercury CVAA				
Mercury	0.137		0.046	mg/kg dry
Metals ICP				
Silver	0.70		0.57	mg/kg dry
Aluminum	43000		11	mg/kg dry
Arsenic	7.8		0.91	mg/kg dry
Barium	73		11	mg/kg dry
Beryllium	---	U	0.34	mg/kg dry
Calcium	150000		1400	mg/kg dry
Cadmium	---	U	0.34	mg/kg dry
Cobalt	2.7		2.3	mg/kg dry
Chromium	230		0.57	mg/kg dry
Copper	14		1.1	mg/kg dry
Potassium	680		57	mg/kg dry
Magnesium	3300		57	mg/kg dry
Manganese	190		0.57	mg/kg dry
Sodium	21000		110	mg/kg dry
Nickel	5.5		2.3	mg/kg dry
Lead	22		0.91	mg/kg dry
Antimony	3.6		2.3	mg/kg dry
Selenium	---	U	2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-SD58			**Sample ID: 1109072-30**	
Metals ICP				
Vanadium	400		2.3	mg/kg dry
Zinc	21		2.3	mg/kg dry
Iron	130000		140	mg/kg dry
Field ID: RMA-SD59			**Sample ID: 1109072-31**	
Mercury CVAA				
Mercury	0.154		0.058	mg/kg dry
Metals ICP				
Silver	1.2		0.56	mg/kg dry
Aluminum	47000		11	mg/kg dry
Arsenic	10		0.89	mg/kg dry
Barium	100		11	mg/kg dry
Beryllium	---	U	0.33	mg/kg dry
Calcium	36000		56	mg/kg dry
Cadmium	0.60		0.33	mg/kg dry
Cobalt	3.9		2.2	mg/kg dry
Chromium	410		0.56	mg/kg dry
Copper	20		1.1	mg/kg dry
Iron	250000		140	mg/kg dry
Potassium	660		56	mg/kg dry
Magnesium	2200		56	mg/kg dry
Manganese	180		0.56	mg/kg dry
Sodium	17000		110	mg/kg dry
Nickel	6.4		2.2	mg/kg dry
Lead	47		0.89	mg/kg dry
Antimony	7.4		2.2	mg/kg dry
Selenium	2.9		2.2	mg/kg dry
Thallium	---	U	2.2	mg/kg dry

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-SD59			**Sample ID: 1109072-31**	
Metals ICP				
Vanadium	680		2.2	mg/kg dry
Zinc	18		2.2	mg/kg dry
Field ID: RMA-SD60			**Sample ID: 1109072-32**	
Mercury CVAA				
Mercury	0.156		0.043	mg/kg dry
Metals ICP				
Silver	1.0		0.52	mg/kg dry
Aluminum	41000		10	mg/kg dry
Arsenic	11		0.83	mg/kg dry
Barium	76		10	mg/kg dry
Beryllium	---	U	0.31	mg/kg dry
Calcium	44000		52	mg/kg dry
Cadmium	---	U	0.31	mg/kg dry
Cobalt	2.7		2.1	mg/kg dry
Chromium	380		0.52	mg/kg dry
Copper	17		1.0	mg/kg dry
Iron	230000		130	mg/kg dry
Potassium	480		52	mg/kg dry
Magnesium	2300		52	mg/kg dry
Manganese	130		0.52	mg/kg dry
Sodium	15000		100	mg/kg dry
Nickel	4.8		2.1	mg/kg dry
Lead	40		0.83	mg/kg dry
Antimony	6.4		2.1	mg/kg dry
Selenium	2.3		2.1	mg/kg dry
Thallium	---	U	2.1	mg/kg dry
Vanadium	610		2.1	mg/kg dry
Zinc	15		2.1	mg/kg dry

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Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-SD60			**Sample ID: 1109072-32**	
Metals ICP				
Field ID: RMA-SD61			**Sample ID: 1109072-33**	
Mercury CVAA				
Mercury	0.469		0.048	mg/kg dry
Metals ICP				
Silver	0.61		0.58	mg/kg dry
Aluminum	27000		12	mg/kg dry
Arsenic	14		0.93	mg/kg dry
Barium	130		12	mg/kg dry
Beryllium	---	U	0.35	mg/kg dry
Calcium	63000		58	mg/kg dry
Cadmium	---	U	0.35	mg/kg dry
Cobalt	6.6		2.3	mg/kg dry
Chromium	180		0.58	mg/kg dry
Copper	26		1.2	mg/kg dry
Potassium	2200		58	mg/kg dry
Magnesium	4000		58	mg/kg dry
Manganese	660		0.58	mg/kg dry
Sodium	1100		120	mg/kg dry
Nickel	6.8		2.3	mg/kg dry
Lead	23		0.93	mg/kg dry
Antimony	3.7		2.3	mg/kg dry
Selenium	3.1		2.3	mg/kg dry
Thallium	---	U	2.3	mg/kg dry
Vanadium	580		2.3	mg/kg dry
Zinc	26		2.3	mg/kg dry
Iron	190000		150	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-SD62			**Sample ID: 1109072-34**	
Mercury CVAA				
Mercury	0.145		0.046	mg/kg dry
Metals ICP				
Silver	1.2		0.46	mg/kg dry
Aluminum	23000		9.2	mg/kg dry
Arsenic	15		0.74	mg/kg dry
Barium	50		9.2	mg/kg dry
Beryllium	---	U	0.28	mg/kg dry
Calcium	23000		46	mg/kg dry
Cadmium	0.61		0.28	mg/kg dry
Cobalt	---	U	1.8	mg/kg dry
Chromium	290		0.46	mg/kg dry
Copper	16		0.92	mg/kg dry
Iron	330000		120	mg/kg dry
Potassium	240		46	mg/kg dry
Magnesium	1900		46	mg/kg dry
Manganese	170		0.46	mg/kg dry
Sodium	4500		92	mg/kg dry
Nickel	3.9		1.8	mg/kg dry
Lead	43		0.74	mg/kg dry
Antimony	8.1		1.8	mg/kg dry
Selenium	3.2		1.8	mg/kg dry
Thallium	---	U	1.8	mg/kg dry
Vanadium	860		1.8	mg/kg dry
Zinc	14		1.8	mg/kg dry
Field ID: RMA-SD63			**Sample ID: 1109072-35**	
Mercury CVAA				
Mercury	0.179		0.047	mg/kg dry

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: RMA-SD63			**Sample ID: 1109072-35**	
Metals ICP				
Silver	1.2		0.49	mg/kg dry
Aluminum	22000		9.8	mg/kg dry
Arsenic	16		0.78	mg/kg dry
Barium	54		9.8	mg/kg dry
Beryllium	---	U	0.29	mg/kg dry
Calcium	18000		49	mg/kg dry
Cadmium	0.47		0.29	mg/kg dry
Cobalt	---	U	2.0	mg/kg dry
Chromium	310		0.49	mg/kg dry
Copper	17		0.98	mg/kg dry
Iron	380000		120	mg/kg dry
Potassium	250		49	mg/kg dry
Magnesium	1700		49	mg/kg dry
Manganese	170		0.49	mg/kg dry
Sodium	4600		98	mg/kg dry
Nickel	3.8		2.0	mg/kg dry
Lead	47		0.78	mg/kg dry
Antimony	10		2.0	mg/kg dry
Selenium	3.7		2.0	mg/kg dry
Thallium	---	U	3.9	mg/kg dry
Vanadium	980		2.0	mg/kg dry
Zinc	12		2.0	mg/kg dry
Field ID: SCA-GW06			**Sample ID: 1109073-01**	
Sanitary				
Chloride	1400		120	mg/L
Mercury CVAA				
Mercury	0.501		0.200	ug/L

Project:St. Croix Alumina - 1109036

Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW06			**Sample ID: 1109073-01**	
Metals ICP				
Silver	---	U	5.0	ug/L
Aluminum	320000		100	ug/L
Arsenic	2700		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	500		500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	1400		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	79000		1000	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	5900000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	350		20	ug/L
Thallium	---	U	20	ug/L
Vanadium	18000		20	ug/L
Zinc	---	U	20	ug/L
Iron	170		50	ug/L
Field ID: SCA-GW06F			**Sample ID: 1109073-02**	
Mercury CVAA				
Mercury	0.468		0.200	ug/L
Metals ICP				
Silver	---	U	5.0	ug/L
Aluminum	330000		100	ug/L

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Project Number: 1109036

Analyte	Result	Qualifier	Reporting Limit	Units
Field ID: SCA-GW06F			**Sample ID: 1109073-02**	
Metals ICP				
Arsenic	2800		8.0	ug/L
Barium	---	U	100	ug/L
Beryllium	---	U	3.0	ug/L
Calcium	---	U	500	ug/L
Cadmium	---	U	3.0	ug/L
Cobalt	---	U	20	ug/L
Chromium	1300		5.0	ug/L
Copper	---	U	10	ug/L
Potassium	78000		1000	ug/L
Magnesium	---	U	500	ug/L
Manganese	---	U	5.0	ug/L
Sodium	6100000		25000	ug/L
Nickel	---	U	20	ug/L
Lead	---	U	8.0	ug/L
Antimony	---	U	20	ug/L
Selenium	360		20	ug/L
Thallium	---	U	20	ug/L
Vanadium	18000		20	ug/L
Zinc	---	U	20	ug/L
Iron	---	U	50	ug/L

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7429-90-5	Aluminum	3100	TRG	Yes	Y		N/A	N/A	N	8.5			1.9	8.5	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7439-89-6	Iron	3400	TRG	Yes	Y		N/A	N/A	N	4.2			1.3	4.2	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.42	mg/kg	mg/kg	0.15	0.42	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-38-2	Arsenic	3.7	TRG	Yes	Y		N/A	N/A	N	0.68	mg/kg	mg/kg	0.30	0.68	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-39-3	Barium	61	TRG	Yes	Y		N/A	N/A	N	8.5	mg/kg	mg/kg	3.1	8.5	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.25	mg/kg	mg/kg	0.15	0.25	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	10	QUANT	1109036-01	7440-70-2	Calcium	340000	TRG	Yes	Y		N/A	N/A	N	420	mg/kg	mg/kg	200	420	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.25	mg/kg	mg/kg	0.15	0.25	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-48-4	Cobalt	1.7	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.63	1.7	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-47-3	Chromium	9.2	TRG	Yes	Y		N/A	N/A	N	0.42	mg/kg	mg/kg	0.30	0.42	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-50-8	Copper	13	TRG	Yes	Y	K	N/A	N/A	N	0.85	mg/kg	mg/kg	0.47	0.85	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-09-7	Potassium	610	TRG	Yes	Y		N/A	N/A	N	42	mg/kg	mg/kg	16	42	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7439-95-4	Magnesium	4000	TRG	Yes	Y		N/A	N/A	N	42	mg/kg	mg/kg	14	42	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7439-96-5	Manganese	68	TRG	Yes	Y		N/A	N/A	N	0.42	mg/kg	mg/kg	0.31	0.42	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-23-5	Sodium	290	TRG	Yes	Y	J	N/A	N/A	N	85	mg/kg	mg/kg	29	85	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-02-0	Nickel	5.3	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.64	1.7	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7439-92-1	Lead	49	TRG	Yes	Y		N/A	N/A	N	0.68	mg/kg	mg/kg	0.35	0.68	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	1.7	mg/kg	mg/kg	1.2	1.7	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	1.0	1.7	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.78	1.7	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-62-2	Vanadium	10	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.63	1.7	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 15:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7440-66-6	Zinc	65	TRG	Yes	Y	J	N/A	N/A	N	1.7	mg/kg	mg/kg	0.62	1.7	N/A	St. Croix Alumina - 1109036
DESA	BG-S01	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	10/04/2011 15:21	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-01	7439-97-6	Mercury	0.128	TRG	Yes	N	K	N/A	N/A	N	0.046	mg/kg	mg/kg		0.046	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.47	mg/kg	mg/kg	0.17	0.47	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7429-90-5	Aluminum	25000	TRG	Yes	N		N/A	N/A	N	9.3	mg/kg	mg/kg	3.4	9.3	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-38-2	Arsenic	5.0	TRG	Yes	Y		N/A	N/A	N	0.74	mg/kg	mg/kg	0.34	0.74	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-39-3	Barium	73	TRG	Yes	Y		N/A	N/A	N	9.3	mg/kg	mg/kg	3.4	9.3	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	0.28	mg/kg	mg/kg	0.17	0.28	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	10	QUANT	1109036-02	7440-70-2	Calcium	150000	TRG	Yes	Y		N/A	N/A	N	470	mg/kg	mg/kg	220	470	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.28	mg/kg	mg/kg	0.17	0.28	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-48-4	Cobalt	10	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.69	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-47-3	Chromium	35	TRG	Yes	Y		N/A	N/A	N	0.47	mg/kg	mg/kg	0.34	0.47	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-50-8	Copper	38	TRG	Yes	Y		N/A	N/A	N	0.93	mg/kg	mg/kg	0.52	0.93	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7439-89-6	Iron	21000	TRG	Yes	Y		N/A	N/A	N	4.7	mg/kg	mg/kg	1.5	4.7	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-09-7	Potassium	5600	TRG	Yes	Y		N/A	N/A	N	47	mg/kg	mg/kg	18	47	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7439-95-4	Magnesium	5100	TRG	Yes	Y		N/A	N/A	N	47	mg/kg	mg/kg	16	47	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7439-96-5	Manganese	690	TRG	Yes	Y		N/A	N/A	N	0.47	mg/kg	mg/kg	0.34	0.47	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-23-5	Sodium	170	TRG	Yes	N		N/A	N/A	N	93	mg/kg	mg/kg	32	93	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-02-0	Nickel	19	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.71	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7439-92-1	Lead	13	TRG	Yes	Y		N/A	N/A	N	0.74	mg/kg	mg/kg	0.39	0.74	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	1.9	mg/kg	mg/kg	1.3	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	1.1	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.86	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-62-2	Vanadium	40	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.70	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7440-66-6	Zinc	70	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.68	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	10/04/2011 15:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-02	7439-97-6	Mercury	0.083	TRG	Yes	N		N/A	N/A	N	0.046	mg/kg	mg/kg	0.046	0.046	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.17	0.46	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7429-90-5	Aluminum	30000	TRG	Yes	Y		N/A	N/A	N	9.3	mg/kg	mg/kg	3.4	9.3	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-38-2	Arsenic	4.8	TRG	Yes	Y		N/A	N/A	N	0.74	mg/kg	mg/kg	0.33	0.74	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-39-3	Barium	89	TRG	Yes	Y		N/A	N/A	N	9.3	mg/kg	mg/kg	3.4	9.3	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.28	mg/kg	mg/kg	0.17	0.28	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-70-2	Calcium	83000	TRG	Yes	Y		N/A	N/A	N	46	mg/kg	mg/kg	22	46	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.28	mg/kg	mg/kg	0.17	0.28	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-48-4	Cobalt	12	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.69	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-47-3	Chromium	38	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.33	0.46	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-50-8	Copper	45	TRG	Yes	Y		N/A	N/A	N	0.93	mg/kg	mg/kg	0.52	0.93	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7439-89-6	Iron	23000	TRG	Yes	Y		N/A	N/A	N	4.6	mg/kg	mg/kg	1.5	4.6	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-09-7	Potassium	7800	TRG	Yes	Y		N/A	N/A	N	46	mg/kg	mg/kg	18	46	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7439-95-4	Magnesium	5100	TRG	Yes	Y		N/A	N/A	N	46	mg/kg	mg/kg	16	46	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7439-96-5	Manganese	730	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.34	0.46	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-23-5	Sodium	160	TRG	Yes	N		N/A	N/A	N	93	mg/kg	mg/kg	32	93	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-02-0	Nickel	25	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.71	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7439-92-1	Lead	19	TRG	Yes	Y		N/A	N/A	N	0.74	mg/kg	mg/kg	0.39	0.74	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	1.3	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	1.1	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.85	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-62-2	Vanadium	53	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.70	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S03	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-03	7440-66-6	Zinc	94	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.68	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-S04	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:18	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-04	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.52	mg/kg	mg/kg	0.19	0.52	N/A	St. Croix Alumina - 1109036
DESA	BG-S04	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:18	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-04	7429-90-5	Aluminum	30000	TRG	Yes	N		N/A	N/A	N	10	mg/kg	mg/kg	3.8	10	N/A	St. Croix Alumina - 1109036
DESA	BG-S04	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:18	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-04	7440-38-2	Arsenic	4.4	TRG	Yes	Y		N/A	N/A	N	0.83	mg/kg	mg/kg	0.38	0.83	N/A	St. Croix Alumina - 1109036
DESA	BG-S04	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:18	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-04	7440-39-3	Barium	82	TRG	Yes	Y		N/A	N/A	N	10	mg/kg	mg/kg	3.9	10	N/A	St. Croix Alumina - 1109036
DESA	BG-S04	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:18	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-04	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.31	mg/kg	mg/kg	0.19	0.31	N/A	St. Croix Alumina - 1109036
DESA	BG-S04	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:18	T	INITIAL	Solid	LB	Dry	10	QUANT	1109036-04	7440-70-2	Calcium	88000	TRG	Yes	Y		N/A	N/A	N	52	mg/kg	mg/kg	25	52	N/A	St. Croix Alumina - 1109036
DESA	BG-S04	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:18	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-04	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.31	mg/kg	mg/kg	0.19	0.31	N/A	St. Croix Alumina - 1109036
DESA	BG-S04	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:18	T	INITIAL	Solid	LB	Dry	1	QUANT	1109

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	0.29	mg/kg	mg/kg	0.18	0.29	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	10	QUANT	1109036-07	7440-70-2	Calcium	160000	TRG	Yes	N		N/A	N/A	N	490	mg/kg	mg/kg	230	490	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7440-48-4	Cobalt	11	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.72	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7440-47-3	Chromium	36	TRG	Yes	Y		N/A	N/A	N	0.49	mg/kg	mg/kg	0.35	0.49	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7440-50-8	Copper	36	TRG	Yes	Y		N/A	N/A	N	0.97	mg/kg	mg/kg	0.54	0.97	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7439-89-6	Iron	21000	TRG	Yes	Y		N/A	N/A	N	4.9	mg/kg	mg/kg	1.6	4.9	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7440-09-7	Potassium	6100	TRG	Yes	Y		N/A	N/A	N	49	mg/kg	mg/kg	18	49	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7439-95-4	Magnesium	5300	TRG	Yes	Y		N/A	N/A	N	49	mg/kg	mg/kg	17	49	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7439-96-5	Manganese	720	TRG	Yes	Y		N/A	N/A	N	0.49	mg/kg	mg/kg	0.36	0.49	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7440-23-5	Sodium	190	TRG	Yes	N		N/A	N/A	N	97	mg/kg	mg/kg	33	97	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7440-02-0	Nickel	18	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.74	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7439-92-1	Lead	9.3	TRG	Yes	Y		N/A	N/A	N	0.78	mg/kg	mg/kg	0.41	0.78	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	1.9	mg/kg	mg/kg	1.4	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	1.2	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.89	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7440-62-2	Vanadium	35	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.73	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:41	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7440-66-6	Zinc	39	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.71	1.9	N/A	St. Croix Alumina - 1109036
DESA	BG-SS02	N/A	N/A	Solid	Sample	FIELD	N/A	10/04/2011				N	EPA 245.1 / SOP C-110	10/04/2011 15:40	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-07	7439-97-6	Mercury	0.075	TRG	Yes	Y		N/A	N/A	N	0.043	mg/kg	mg/kg		0.043	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7429-90-5	Aluminum	1800	TRG	Yes	Y		N/A	N/A	N	3.3	mg/kg	mg/kg	0.74	3.3	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7439-89-6	Iron	1800	TRG	Yes	Y		N/A	N/A	N	1.6			0.49	1.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.16	mg/kg	mg/kg	0.059	0.16	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-38-2	Arsenic	3.0	TRG	Yes	Y		N/A	N/A	N	0.26	mg/kg	mg/kg	0.12	0.26	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-39-3	Barium	10	TRG	Yes	Y		N/A	N/A	N	3.3	mg/kg	mg/kg	1.2	3.3	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.098	mg/kg	mg/kg	0.059	0.098	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	10	QUANT	1109036-08	7440-70-2	Calcium	2800000	TRG	Yes	Y		N/A	N/A	N	160	mg/kg	mg/kg	79	160	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.098	mg/kg	mg/kg	0.059	0.098	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-48-4	Cobalt	0.87	TRG	Yes	Y		N/A	N/A	N	0.66	mg/kg	mg/kg	0.24	0.66	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-47-3	Chromium	7.0	TRG	Yes	Y		N/A	N/A	N	0.16	mg/kg	mg/kg	0.12	0.16	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-50-8	Copper	4.7	TRG	Yes	Y		N/A	N/A	N	0.33	mg/kg	mg/kg	0.18	0.33	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-09-7	Potassium	440	TRG	Yes	N		N/A	N/A	N	16	mg/kg	mg/kg	6.2	16	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7439-95-4	Magnesium	5700	TRG	Yes	Y		N/A	N/A	N	16	mg/kg	mg/kg	5.6	16	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7439-96-5	Manganese	120	TRG	Yes	Y		N/A	N/A	N	0.16	mg/kg	mg/kg	0.12	0.16	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-23-5	Sodium	5400	TRG	Yes	N		N/A	N/A	N	33	mg/kg	mg/kg	11	33	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-02-0	Nickel	1.2	TRG	Yes	Y		N/A	N/A	N	0.66	mg/kg	mg/kg	0.25	0.66	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7439-92-1	Lead	0.93	TRG	Yes	Y		N/A	N/A	N	0.26	mg/kg	mg/kg	0.14	0.26	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	0.66	mg/kg	mg/kg	0.46	0.66	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	0.66	mg/kg	mg/kg	0.39	0.66	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	0.66	mg/kg	mg/kg	0.30	0.66	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-62-2	Vanadium	13	TRG	Yes	Y		N/A	N/A	N	0.66	mg/kg	mg/kg	0.25	0.66	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7440-66-6	Zinc	3.5	TRG	Yes	Y		N/A	N/A	N	0.66	mg/kg	mg/kg	0.24	0.66	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	10/04/2011 15:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.041	mg/kg	mg/kg		0.041	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08		% Gravel & Larger >2.0 mm	ND	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08		% Coarse Sand >0.42 - 2.0 mm	24	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08		% Very Fine Sand >.0625 - 125 mm	1.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08		% Very Coarse Sand >1 - 2 mm	5.7	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08		% Medium Sand >.25 - .5 mm	47	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08		% Fine Sand >.125 - .25 mm	20	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08		%Silt + % Clay/Colloids (%Total Fines	3.2	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD09	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 415.1mod / SOP C-88	10/11/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-08	10-19-5	Organic Carbon, Total	66000	TRG	Yes	N		N/A	N/A	N	1000	mg/kg	mg/kg		1000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.26	mg/kg	mg/kg	0.092	0.26	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7429-90-5	Aluminum	11000	TRG	Yes	N		N/A	N/A	N	5.1	mg/kg	mg/kg	1.9	5.1	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-38-2	Arsenic	4.1	TRG	Yes	Y		N/A	N/A	N	0.41	mg/kg	mg/kg	0.18	0.41	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-39-3	Barium	45	TRG	Yes	Y		N/A	N/A	N	5.1	mg/kg	mg/kg	1.9	5.1	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-41-7	Beryllium	0.18	TRG	Yes	Y		N/A	N/A	N	0.15	mg/kg	mg/kg	0.092	0.15	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	10	QUANT	1109036-09	7440-70-2	Calcium	270000	TRG	Yes	Y		N/A	N/A	N	260	mg/kg	mg/kg	120	260	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.15	mg/kg	mg/kg	0.092	0.15	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-48-4	Cobalt	4.7	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.38	1.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-47-3	Chromium	14	TRG	Yes	Y		N/A	N/A	N	0.26	mg/kg	mg/kg	0.18	0.26	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-50-8	Copper	30	TRG	Yes	Y		N/A	N/A	N	0.51	mg/kg	mg/kg	0.29	0.51	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7439-89-6	Iron	11000	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	0.82	2.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-09-7	Potassium	3600	TRG	Yes	Y		N/A	N/A	N	26	mg/kg	mg/kg	9.8	26	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7439-95-4	Magnesium	9300	TRG	Yes	Y		N/A	N/A	N	26	mg/kg	mg/kg	8.7	26	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7439-96-5	Manganese	260	TRG	Yes	Y		N/A	N/A	N	0.26	mg/kg	mg/kg	0.19	0.26	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-23-5	Sodium	19000	TRG	Yes	Y		N/A	N/A	N	51	mg/kg	mg/kg	17	51	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-02-0	Nickel	8.0	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.39	1.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7439-92-1	Lead	2.4	TRG	Yes	Y		N/A	N/A	N	0.41	mg/kg	mg/kg	0.22	0.41	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.72	1.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.62	1.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.47	1.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-62-2	Vanadium	60	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.39	1.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 13:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7440-66-6	Zinc	19	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.37	1.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	10/04/2011 15:44	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.078	mg/kg	mg/kg		0.078	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09		% Gravel & Larger >2.0 mm	2.3	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09		% Coarse Sand >0.42 - 2.0 mm	4.8	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD10	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109036-09		% Very Fine

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-41-7	Beryllium	ND	TRG	Yes	N	N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-70-2	Calcium	540000	TRG	Yes	Y	N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-43-9	Cadmium	ND	TRG	Yes	N	N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-48-4	Cobalt	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-47-3	Chromium	5.6	TRG	Yes	Y	N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-50-8	Copper	ND	TRG	Yes	N	N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-09-7	Potassium	270000	TRG	Yes	Y	N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7439-95-4	Magnesium	710000	TRG	Yes	Y	N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7439-96-5	Manganese	630	TRG	Yes	Y	N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-23-5	Sodium	540000	TRG	Yes	Y	N/A	N/A	N	1000	ug/L	ug/L	270	1000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-02-0	Nickel	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7439-92-1	Lead	ND	TRG	Yes	Y	N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-36-0	Antimony	ND	TRG	Yes	Y	N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7782-49-2	Selenium	ND	TRG	Yes	Y	N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-28-0	Thallium	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-62-2	Vanadium	57	TRG	Yes	Y	N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7440-66-6	Zinc	ND	TRG	Yes	Y	N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	09/19/2011 17:34	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-12	7439-97-6	Mercury	ND	TRG	Yes	Y	N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW10	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 300.0/ SOP C-94	09/15/2011 06:52	T	INITIAL	Aqueous	LB	NA	250	QUANT	1109036-12	16887-00-6	Chloride	8100	TRG	Yes	Y	N/A	N/A	N	250	mg/L	mg/L	32	250	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7429-90-5	Aluminum	300	TRG	Yes	Y	N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7439-89-6	Iron	80	TRG	Yes	Y	N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-22-4	Silver	ND	TRG	Yes	N	N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-38-2	Arsenic	41	TRG	Yes	Y	N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-39-3	Barium	ND	TRG	Yes	Y	N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-41-7	Beryllium	ND	TRG	Yes	N	N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-70-2	Calcium	390000	TRG	Yes	Y	N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-43-9	Cadmium	ND	TRG	Yes	N	N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-48-4	Cobalt	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-47-3	Chromium	ND	TRG	Yes	N	N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-50-8	Copper	ND	TRG	Yes	N	N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-09-7	Potassium	540000	TRG	Yes	Y	N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	10	QUANT	1109036-13	7439-95-4	Magnesium	1500000	TRG	Yes	Y	N/A	N/A	N	5000	ug/L	ug/L	1400	5000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7439-96-5	Manganese	71	TRG	Yes	Y	N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109036-13	7440-23-5	Sodium	11000000	TRG	Yes	N	N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-02-0	Nickel	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7439-92-1	Lead	ND	TRG	Yes	N	N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-36-0	Antimony	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7782-49-2	Selenium	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-28-0	Thallium	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-62-2	Vanadium	28	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7440-66-6	Zinc	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	09/19/2011 17:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109036-13	7439-97-6	Mercury	ND	TRG	Yes	Y	N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW11	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 300.0/ SOP C-94	09/15/2011 07:00	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109036-13	16887-00-6	Chloride	16000	TRG	Yes	Y	N/A	N/A	N	500	mg/L	mg/L	65	500	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7429-90-5	Aluminum	1100	TRG	Yes	N	N/A	N/A	N	6.6			1.5	6.6	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7439-89-6	Iron	1100	TRG	Yes	Y	N/A	N/A	N	3.3			0.98	3.3	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-22-4	Silver	ND	TRG	Yes	Y	N/A	N/A	N	0.33	mg/kg	mg/kg	0.12	0.33	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-38-2	Arsenic	2.3	TRG	Yes	Y	N/A	N/A	N	0.52	mg/kg	mg/kg	0.24	0.52	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-39-3	Barium	9.4	TRG	Yes	Y	N/A	N/A	N	6.6	mg/kg	mg/kg	2.4	6.6	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-41-7	Beryllium	ND	TRG	Yes	Y	N/A	N/A	N	0.20	mg/kg	mg/kg	0.12	0.20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	10	QUANT	1109045-01	7440-70-2	Calcium	330000	TRG	Yes	Y	N/A	N/A	N	330	mg/kg	mg/kg	160	330	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-43-9	Cadmium	ND	TRG	Yes	N	N/A	N/A	N	0.20	mg/kg	mg/kg	0.12	0.20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-48-4	Cobalt	ND	TRG	Yes	Y	N/A	N/A	N	1.3	mg/kg	mg/kg	0.49	1.3	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-47-3	Chromium	7.0	TRG	Yes	Y	N/A	N/A	N	0.33	mg/kg	mg/kg	0.24	0.33	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-50-8	Copper	3.0	TRG	Yes	Y	N/A	N/A	N	0.66	mg/kg	mg/kg	0.37	0.66	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-09-7	Potassium	350	TRG	Yes	Y	N/A	N/A	N	33	mg/kg	mg/kg	12	33	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7439-95-4	Magnesium	7300	TRG	Yes	N	N/A	N/A	N	33	mg/kg	mg/kg	11	33	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7439-96-5	Manganese	75	TRG	Yes	Y	N/A	N/A	N	0.33	mg/kg	mg/kg	0.24	0.33	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-23-5	Sodium	4900	TRG	Yes	Y	N/A	N/A	N	66	mg/kg	mg/kg	22	66	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-02-0	Nickel	ND	TRG	Yes	Y	N/A	N/A	N	1.3	mg/kg	mg/kg	0.50	1.3	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7439-92-1	Lead	1.1	TRG	Yes	Y	N/A	N/A	N	0.52	mg/kg	mg/kg	0.28	0.52	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-36-0	Antimony	ND	TRG	Yes	N	N/A	N/A	N	1.3	mg/kg	mg/kg	0.92	1.3	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7782-49-2	Selenium	ND	TRG	Yes	Y	N/A	N/A	N	1.3	mg/kg	mg/kg	0.79	1.3	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-28-0	Thallium	ND	TRG	Yes	Y	N/A	N/A	N	1.3	mg/kg	mg/kg	0.60	1.3	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-62-2	Vanadium	8.2	TRG	Yes	Y	N/A	N/A	N	1.3	mg/kg	mg/kg	0.49	1.3	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7440-66-6	Zinc	3.7	TRG	Yes	Y	N/A	N/A	N	1.3	mg/kg	mg/kg	0.48	1.3	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 245.1 / SOP C-110	10/04/2011 15:48	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	7439-97-6	Mercury	ND	TRG	Yes	N	N/A	N/A	N	0.038	mg/kg	mg/kg	0.038	N/A	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01		% Gravel & Larger >2.0 mm	51	TRG	Yes	N	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01		% Coarse Sand >0.42 - 2.0 mm	15	TRG	Yes	N	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01		% Very Fine Sand >.0625 - 125 mm	0.40	TRG	Yes	N	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01		% Very Coarse Sand >1 - 2 mm	16	TRG	Yes	N	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01		% Medium Sand >.25 - .5 mm	12	TRG	Yes	N	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01		% Fine Sand >.125 - .25 mm	3.6	TRG	Yes	N	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01		%Silt + % Clay/Colloids (%Total Fines	1.8	TRG	Yes	N	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD01	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 415.1/mod / SOP C-88	10/11/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-01	10-19-5	Organic Carbon, Total	69000	TRG	Yes	N	N/A	N/A	N	1000	mg/kg	mg/kg		1000	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD04	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-02	7429-90-5	Aluminum	2500	TRG	Yes	Y	N/A	N/A	N	7.3			1.7	7.3	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD04	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:06	T	INITIAL	Solid	LB	Dry	1

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7440-41-7	Beryllium	0.18	TRG	Yes	Y		N/A	N/A	N	0.17	mg/kg	mg/kg	0.10	0.17	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	10	QUANT	1109045-04	7440-70-2	Calcium	140000	TRG	Yes	Y		N/A	N/A	N	290	mg/kg	mg/kg	140	290	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7440-48-4	Cobalt	6.0	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.42	1.1	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7440-47-3	Chromium	51	TRG	Yes	Y		N/A	N/A	N	0.29	mg/kg	mg/kg	0.21	0.29	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7440-50-8	Copper	43	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.32	0.57	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	10	QUANT	1109045-04	7439-89-6	Iron	69000	TRG	Yes	Y		N/A	N/A	N	29	mg/kg	mg/kg	9.1	29	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7440-09-7	Potassium	680	TRG	Yes	N		N/A	N/A	N	29	mg/kg	mg/kg	11	29	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7439-95-4	Magnesium	6300	TRG	Yes	N		N/A	N/A	N	29	mg/kg	mg/kg	9.7	29	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7439-96-5	Manganese	520	TRG	Yes	Y		N/A	N/A	N	0.29	mg/kg	mg/kg	0.21	0.29	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7440-23-5	Sodium	4100	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	19	57	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7440-02-0	Nickel	15	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.43	1.1	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7439-92-1	Lead	190	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.24	0.46	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7440-36-0	Antimony	2.4	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.80	1.1	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.68	1.1	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.52	1.1	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7440-62-2	Vanadium	70	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.43	1.1	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:15	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7440-66-6	Zinc	500	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.42	1.1	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 245.1 / SOP C-110	10/04/2011 15:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.046	mg/kg	mg/kg		0.046	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04		% Gravel & Larger >2.0 mm	34	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04		% Coarse Sand >0.42 - 2.0 mm	32	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04		% Very Fine Sand >.0625 - .125 mm	0.20	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04		% Very Coarse Sand >1 - 2 mm	20	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04		% Medium Sand >.25 - .5 mm	9.6	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04		% Fine Sand >.125 - .25 mm	0.80	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04		%Silt + % Clay/Colloids (%Total Fines)	2.4	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD06	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 415.1mod / SOP C-88	10/11/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-04	10-19-5	Organic Carbon, Total	31000	TRG	Yes	N		N/A	N/A	N	1000	mg/kg	mg/kg		1000	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.31	mg/kg	mg/kg	0.11	0.31	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7429-90-5	Aluminum	6900	TRG	Yes	Y		N/A	N/A	N	6.2	mg/kg	mg/kg	2.2	6.2	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-38-2	Arsenic	11	TRG	Yes	Y		N/A	N/A	N	0.50	mg/kg	mg/kg	0.22	0.50	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-39-3	Barium	29	TRG	Yes	Y		N/A	N/A	N	6.2	mg/kg	mg/kg	2.3	6.2	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.19	mg/kg	mg/kg	0.11	0.19	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	10	QUANT	1109045-05	7440-70-2	Calcium	280000	TRG	Yes	Y		N/A	N/A	N	310	mg/kg	mg/kg	150	310	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.19	mg/kg	mg/kg	0.11	0.19	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-48-4	Cobalt	1.2	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.46	1.2	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-47-3	Chromium	13	TRG	Yes	Y		N/A	N/A	N	0.31	mg/kg	mg/kg	0.22	0.31	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-50-8	Copper	16	TRG	Yes	Y		N/A	N/A	N	0.62	mg/kg	mg/kg	0.35	0.62	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7439-89-6	Iron	5900	TRG	Yes	Y		N/A	N/A	N	3.1	mg/kg	mg/kg	0.99	3.1	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-09-7	Potassium	680	TRG	Yes	N		N/A	N/A	N	31	mg/kg	mg/kg	12	31	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7439-95-4	Magnesium	8800	TRG	Yes	N		N/A	N/A	N	31	mg/kg	mg/kg	11	31	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7439-96-5	Manganese	350	TRG	Yes	Y		N/A	N/A	N	0.31	mg/kg	mg/kg	0.23	0.31	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-23-5	Sodium	8600	TRG	Yes	N		N/A	N/A	N	62	mg/kg	mg/kg	21	62	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-02-0	Nickel	3.7	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.47	1.2	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7439-92-1	Lead	25	TRG	Yes	Y		N/A	N/A	N	0.50	mg/kg	mg/kg	0.26	0.50	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.87	1.2	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.74	1.2	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.57	1.2	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-62-2	Vanadium	18	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.46	1.2	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7440-66-6	Zinc	170	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.45	1.2	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 245.1 / SOP C-110	10/04/2011 15:57	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	7439-97-6	Mercury	0.062	TRG	Yes	N		N/A	N/A	N	0.037	mg/kg	mg/kg		0.037	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05		% Gravel & Larger >2.0 mm	26	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05		% Coarse Sand >0.42 - 2.0 mm	4.4	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05		% Very Fine Sand >.0625 - .125 mm	19	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05		% Very Coarse Sand >1 - 2 mm	4.4	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05		% Silt	13	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05		% Medium Sand >.25 - .5 mm	8.6	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05		% Fine Sand >.125 - .25 mm	18	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05		% Clay & Colloids	6.4	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD07	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 415.1mod / SOP C-88	10/11/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-05	10-19-5	Organic Carbon, Total	84000	TRG	Yes	N		N/A	N/A	N	1000	mg/kg	mg/kg		1000	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.21	mg/kg	mg/kg	0.076	0.21	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7429-90-5	Aluminum	3500	TRG	Yes	Y		N/A	N/A	N	4.2	mg/kg	mg/kg	1.5	4.2	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7440-38-2	Arsenic	1.2	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.15	0.34	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7440-39-3	Barium	16	TRG	Yes	Y		N/A	N/A	N	4.2	mg/kg	mg/kg	1.6	4.2	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.13	mg/kg	mg/kg	0.076	0.13	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	10	QUANT	1109045-06	7440-70-2	Calcium	280000	TRG	Yes	Y		N/A	N/A	N	210	mg/kg	mg/kg	100	210	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.13	mg/kg	mg/kg	0.076	0.13	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7440-48-4	Cobalt	1.5	TRG	Yes	Y		N/A	N/A	N	0.85	mg/kg	mg/kg	0.31	0.85	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7440-47-3	Chromium	10	TRG	Yes	Y		N/A	N/A	N	0.21	mg/kg	mg/kg	0.15	0.21	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7440-50-8	Copper	14	TRG	Yes	Y		N/A	N/A	N	0.42	mg/kg	mg/kg	0.24	0.42	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7439-89-6	Iron	4500	TRG	Yes	Y		N/A	N/A	N	2.1	mg/kg	mg/kg	0.68	2.1	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7440-09-7	Potassium	630	TRG	Yes	N		N/A	N/A	N	21	mg/kg	mg/kg	8.0	21	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7439-95-4	Magnesium	2000	TRG	Yes	Y		N/A	N/A	N	21	mg/kg	mg/kg	7.2	21	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7439-96-5	Manganese	100	TRG	Yes	Y		N/A	N/A	N	0.21	mg/kg	mg/kg	0.16	0.21	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7440-23-5	Sodium	4100	TRG	Yes	Y		N/A	N/A	N	42	mg/kg	mg/kg	14	42	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109045-06	7440-02-0	Nickel	3.9	TRG	Yes	Y		N/A	N/A	N	0.85	mg/kg	mg/kg	0.32	0.85	N/A	St. Croix Alumina - 1109036
DESA	ACC-SD52	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 14:33	T	INITIAL	Solid	LB	Dry	1	QUANT

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-38-2	Arsenic	ND	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-70-2	Calcium	370000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-50-8	Copper	ND	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-09-7	Potassium	470000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	10	QUANT	1109045-09	7439-95-4	Magnesium	1300000	TRG	Yes	N		N/A	N/A	N	5000	ug/L	ug/L	1400	5000	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7439-96-5	Manganese	96	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109045-09	7440-23-5	Sodium	9100000	TRG	Yes	N		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:52	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 245.1 / SOP C-110	09/19/2011 17:47	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-09	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 300.0/ SOP C-94	09/21/2011 10:57	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109045-09	16887-00-6	Chloride	15000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	65	500	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7429-90-5	Aluminum	ND	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7439-89-6	Iron	82	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-38-2	Arsenic	ND	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-70-2	Calcium	390000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-50-8	Copper	ND	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-09-7	Potassium	490000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	10	QUANT	1109045-10	7439-95-4	Magnesium	1400000	TRG	Yes	N		N/A	N/A	N	5000	ug/L	ug/L	1400	5000	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7439-96-5	Manganese	24	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109045-10	7440-23-5	Sodium	10000000	TRG	Yes	N		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/21/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 245.1 / SOP C-110	09/19/2011 17:53	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-10	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	ACC-SW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 300.0/ SOP C-94	09/21/2011 11:27	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109045-10	16887-00-6	Chloride	16000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	65	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7429-90-5	Aluminum	120	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7439-89-6	Iron	ND	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-38-2	Arsenic	31	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-70-2	Calcium	350000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-47-3	Chromium	ND	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-50-8	Copper	ND	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-09-7	Potassium	520000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	10	QUANT	1109045-13	7439-95-4	Magnesium	1400000	TRG	Yes	N		N/A	N/A	N	5000	ug/L	ug/L	1400	5000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7439-96-5	Manganese	45	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109045-13	7440-23-5	Sodium	10000000	TRG	Yes	N		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-13	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	09/19/2011 17:57	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-14	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW14	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 300.0/ SOP C-94	09/21/2011 11:42	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109045-14	16887-00-6	Chloride	14000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	65	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7429-90-5	Aluminum	300	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7439-89-6	Iron	200	TRG	Yes	Y		N/A	N/A	N	50		14	50	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-38-2	Arsenic	14	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-70-2	Calcium	280000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-50-8	Copper	10	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-09-7	Potassium	350000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	10	QUANT	1109045-15	7439-95-4	Magnesium	990000	TRG	Yes	Y		N/A	N/A	N	5000	ug/L	ug/L	1400	5000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7439-96-5	Manganese	160	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	10	QUANT	1109045-15	7440-23-5	Sodium	6700000	TRG	Yes	Y		N/A	N/A	N	10000	ug/L	ug/L	2700	10000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-23-5	Sodium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-62-2	Vanadium	21	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/21/2011 17:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	09/19/2011 18:00	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109045-15	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW16	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 300.0/ SOP-15	09/21/2011 11:49	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109045-15	16887-00-6	Chloride	12000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	65	500	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.31	mg/kg	mg/kg	0.11	0.31	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7429-90-5	Aluminum	5300	TRG	Yes	Y		N/A	N/A	N	6.3	mg/kg	mg/kg	2.3	6.3	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-38-2	Arsenic	5.5	TRG	Yes	Y		N/A	N/A	N	0.50	mg/kg	mg/kg	0.23	0.50	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-39-3	Barium	65	TRG	Yes	N		N/A	N/A	N	6.3	mg/kg	mg/kg	2.3	6.3	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	0.19	mg/kg	mg/kg	0.11	0.19	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	10	QUANT	1109051-01	7440-70-2	Calcium	70000	TRG	Yes	Y		N/A	N/A	N	310	mg/kg	mg/kg	150	310	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.19	mg/kg	mg/kg	0.11	0.19	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-48-4	Cobalt	6.8	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.46	1.3	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-47-3	Chromium	14	TRG	Yes	Y		N/A	N/A	N	0.31	mg/kg	mg/kg	0.23	0.31	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-50-8	Copper	25	TRG	Yes	Y		N/A	N/A	N	0.63	mg/kg	mg/kg	0.35	0.63	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7439-89-6	Iron	20000	TRG	Yes	Y		N/A	N/A	N	6.3	mg/kg	mg/kg	1.0	6.3	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-09-7	Potassium	680	TRG	Yes	N		N/A	N/A	N	31	mg/kg	mg/kg	12	31	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7439-95-4	Magnesium	3300	TRG	Yes	Y		N/A	N/A	N	31	mg/kg	mg/kg	11	31	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7439-96-5	Manganese	340	TRG	Yes	Y		N/A	N/A	N	0.31	mg/kg	mg/kg	0.23	0.31	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-23-5	Sodium	3300	TRG	Yes	Y		N/A	N/A	N	63	mg/kg	mg/kg	21	63	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-02-0	Nickel	11	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.48	1.3	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7439-92-1	Lead	6.2	TRG	Yes	Y		N/A	N/A	N	0.50	mg/kg	mg/kg	0.26	0.50	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.88	1.3	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.75	1.3	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.58	1.3	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-62-2	Vanadium	50	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.47	1.3	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7440-66-6	Zinc	24	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.46	1.3	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 245.1 / SOP C-110	10/04/2011 16:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.052	mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 415.1mod / SOP C-88	10/11/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-01	10-19-5	Organic Carbon, Total	7600	TRG	Yes	N		N/A	N/A	N	1000	mg/kg	mg/kg		1000	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.31	mg/kg	mg/kg	0.11	0.31	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7429-90-5	Aluminum	4500	TRG	Yes	Y		N/A	N/A	N	6.2	mg/kg	mg/kg	2.3	6.2	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-38-2	Arsenic	2.5	TRG	Yes	Y		N/A	N/A	N	0.50	mg/kg	mg/kg	0.22	0.50	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-39-3	Barium	14	TRG	Yes	N		N/A	N/A	N	6.2	mg/kg	mg/kg	2.3	6.2	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.19	mg/kg	mg/kg	0.11	0.19	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-70-2	Calcium	29000	TRG	Yes	Y		N/A	N/A	N	31	mg/kg	mg/kg	15	31	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.19	mg/kg	mg/kg	0.11	0.19	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-48-4	Cobalt	4.0	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.46	1.2	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-47-3	Chromium	9.6	TRG	Yes	Y		N/A	N/A	N	0.31	mg/kg	mg/kg	0.22	0.31	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-50-8	Copper	9.5	TRG	Yes	Y		N/A	N/A	N	0.62	mg/kg	mg/kg	0.35	0.62	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7439-89-6	Iron	8000	TRG	Yes	Y		N/A	N/A	N	6.2	mg/kg	mg/kg	1.0	6.2	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-09-7	Potassium	740	TRG	Yes	N		N/A	N/A	N	31	mg/kg	mg/kg	12	31	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7439-95-4	Magnesium	2800	TRG	Yes	Y		N/A	N/A	N	31	mg/kg	mg/kg	11	31	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7439-96-5	Manganese	120	TRG	Yes	Y		N/A	N/A	N	0.31	mg/kg	mg/kg	0.23	0.31	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-23-5	Sodium	4300	TRG	Yes	Y		N/A	N/A	N	62	mg/kg	mg/kg	21	62	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-02-0	Nickel	3.1	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.47	1.2	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7439-92-1	Lead	3.5	TRG	Yes	Y		N/A	N/A	N	0.50	mg/kg	mg/kg	0.26	0.50	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.87	1.2	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.75	1.2	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.57	1.2	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-62-2	Vanadium	45	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.47	1.2	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7440-66-6	Zinc	16	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.46	1.2	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 245.1 / SOP C-110	10/04/2011 16:18	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.050	mg/kg	mg/kg		0.050	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 415.1mod / SOP C-88	10/11/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-02	10-19-5	Organic Carbon, Total	ND	TRG	Yes	N		N/A	N/A	N	1000	mg/kg	mg/kg		1000	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-03	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.16	0.46	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-03	7429-90-5	Aluminum	17000	TRG	Yes	N		N/A	N/A	N	9.1	mg/kg	mg/kg	3.3	9.1	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-03	7440-38-2	Arsenic	2.3	TRG	Yes	Y		N/A	N/A	N	0.73	mg/kg	mg/kg	0.33	0.73	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109051-03	7440-39-3	Barium	94	TRG	Yes	N		N/A	N/A	N	9.1	mg/kg	mg/kg	3.4	9.1	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EP

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	BG-SW53	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 300.0/ SOP C-94	09/21/2011 11:56	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109051-05	16887-00-6	Chloride	13000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	65	500	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7429-90-5	Aluminum	1800	TRG	Yes	N		N/A	N/A	N	100					N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7439-89-6	Iron	2000	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-38-2	Arsenic	ND	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-70-2	Calcium	300000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-47-3	Chromium	ND	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-50-8	Copper	ND	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-09-7	Potassium	320000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7440-66-6	Zinc	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 245.1 / SOP C-110	09/19/2011 18:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-06	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	BG-SW54	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 300.0/ SOP C-94	09/21/2011 10:21	T	INITIAL	Aqueous	LB	NA	250	QUANT	1109051-06	16887-00-6	Chloride	12300	TRG	Yes	Y		N/A	N/A	N	250	mg/L	mg/L	32	250	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7429-90-5	Aluminum	7400	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7439-89-6	Iron	9100	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-38-2	Arsenic	ND	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-70-2	Calcium	87000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-47-3	Chromium	7.7	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-50-8	Copper	23	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-09-7	Potassium	33000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7439-95-4	Magnesium	110000	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7439-96-5	Manganese	220	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	2	QUANT	1109051-07	7440-23-5	Sodium	730000	TRG	Yes	Y		N/A	N/A	N	2000	ug/L	ug/L	550	2000	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7439-92-1	Lead	ND	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7439-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-62-2	Vanadium	51	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7440-66-6	Zinc	22	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 245.1 / SOP C-110	09/19/2011 18:10	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-07	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	BG-SW55	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 300.0/ SOP C-94	09/21/2011 12:01	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109051-07	16887-00-6	Chloride	1000	TRG	Yes	Y		N/A	N/A	N	50	mg/L	mg/L	6.5	50	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7429-90-5	Aluminum	460	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7439-89-6	Iron	640	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-38-2	Arsenic	ND	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-70-2	Calcium	58000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-47-3	Chromium	ND	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-50-8	Copper	ND	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-09-7	Potassium	4500	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7439-95-4	Magnesium	28000	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7439-96-5	Manganese	100	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	10/21/2011 12:02	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-23-5	Sodium	98000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	270	1000	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7439-92-1	Lead	2.4	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-62-2	Vanadium	22	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 245.1 / SOP C-110	09/19/2011 18:12	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109051-08	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	BG-SW56	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/13/2011				N	EPA 300.0/ SOP C-94	09/21/2011 12:06	T	INITIAL	Aqueous	LB	NA	5	QUANT	1109051-08	16887-00-6	Chloride	130	TRG	Yes	Y		N/A	N/A	N	5.0	mg/L	mg/L	0.65	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD08	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:48	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-01	7429-90-5	Aluminum	1200	TRG	Yes	N		N/A	N/A	N	9.1			2.1	9.1	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD08	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:48	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-01	7439-89-6	Iron	1900	TRG	Yes	Y		N/A	N/A	N	9.1			1.4	9.1	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD08	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:48	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-01	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.45	mg/kg	mg/kg	0.16	0.45	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD08	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:48	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-01	7440-38-2	Arsenic	3.5	TRG	Yes	Y		N/A	N/A	N	0.73	mg/kg	mg/kg	0.33	0.73	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD08	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:48	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-01	7440-39-3	Barium	13	TRG	Yes	N		N/A	N/A	N	9.1	mg/kg	mg/kg	3.4	9.1	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD08	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:48	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-01	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.27	mg/kg	mg/kg	0.16	0.27	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD08	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:48	T	INITIAL	Solid	LB	Dry	10	QUANT	1109052-01	7440-70-2	Calcium	330000	TRG	Yes	Y		N/A	N/A	N	450	mg/kg	mg/kg	220	450	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD08	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:48	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-01	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.27	mg/kg	mg/kg	0.16	0.27	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD08

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7440-70-2	Calcium	280000	TRG	Yes	N		N/A	N/A	N	890	mg/kg	mg/kg	430	890	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.53	mg/kg	mg/kg	0.32	0.53	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	1.3	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7440-47-3	Chromium	20	TRG	Yes	Y		N/A	N/A	N	0.89	mg/kg	mg/kg	0.64	0.89	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7440-50-8	Copper	9.9	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	1.0	1.8	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7440-09-7	Potassium	1800	TRG	Yes	N		N/A	N/A	N	89	mg/kg	mg/kg	34	89	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7439-95-4	Magnesium	12000	TRG	Yes	Y		N/A	N/A	N	89	mg/kg	mg/kg	30	89	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7439-96-5	Manganese	80	TRG	Yes	Y		N/A	N/A	N	0.89	mg/kg	mg/kg	0.66	0.89	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7440-23-5	Sodium	24000	TRG	Yes	N		N/A	N/A	N	180	mg/kg	mg/kg	61	180	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7440-02-0	Nickel	4.3	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	1.4	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7439-92-1	Lead	4.2	TRG	Yes	Y		N/A	N/A	N	1.4	mg/kg	mg/kg	0.75	1.4	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	3.6	mg/kg	mg/kg	2.5	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	2.1	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	1.6	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7440-62-2	Vanadium	47	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	1.3	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 12:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7440-66-6	Zinc	12	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	1.3	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	10/04/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.097	mg/kg	mg/kg		0.097	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03		% Gravel & Larger >2.0 mm	55	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03		% Coarse Sand >0.42 - 2.0 mm	5.4	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03		% Very Fine Sand >.0625 - 125 mm	0.50	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03		% Very Coarse Sand >1 - 2 mm	21	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03		% Silt	7.4	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03		% Medium Sand >.25 - .5 mm	2.8	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03		% Fine Sand >.125 - .25 mm	1.6	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03		% Clay & Colloids	6.2	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD13	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 415.1mod / SOP C-88	10/14/2011 17:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-03	10-19-5	Organic Carbon, Total	70000	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7429-90-5	Aluminum	4400	TRG	Yes	Y		N/A	N/A	N	18	mg/kg	mg/kg	4.1	18	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7439-89-6	Iron	2700	TRG	Yes	Y		N/A	N/A	N	18	mg/kg	mg/kg	2.7	18	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.33	0.91	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-38-2	Arsenic	3.9	TRG	Yes	Y		N/A	N/A	N	1.5	mg/kg	mg/kg	0.65	1.5	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	18	mg/kg	mg/kg	6.7	18	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.54	mg/kg	mg/kg	0.33	0.54	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	10	QUANT	1109052-04	7440-70-2	Calcium	370000	TRG	Yes	N		N/A	N/A	N	910	mg/kg	mg/kg	440	910	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.54	mg/kg	mg/kg	0.33	0.54	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	1.3	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-47-3	Chromium	15	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.65	0.91	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-50-8	Copper	8.6	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	1.0	1.8	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-09-7	Potassium	1800	TRG	Yes	Y		N/A	N/A	N	91	mg/kg	mg/kg	34	91	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7439-95-4	Magnesium	15000	TRG	Yes	Y		N/A	N/A	N	91	mg/kg	mg/kg	31	91	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7439-96-5	Manganese	120	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.67	0.91	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-23-5	Sodium	33000	TRG	Yes	N		N/A	N/A	N	180	mg/kg	mg/kg	62	180	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-02-0	Nickel	3.6	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	1.4	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7439-92-1	Lead	4.9	TRG	Yes	Y		N/A	N/A	N	1.5	mg/kg	mg/kg	0.76	1.5	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	2.5	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	2.2	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	1.7	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-62-2	Vanadium	43	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	1.4	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7440-66-6	Zinc	14	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	1.3	3.6	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	10/04/2011 16:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.098	mg/kg	mg/kg		0.098	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04		% Gravel & Larger >2.0 mm	7.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04		% Coarse Sand >0.42 - 2.0 mm	8.2	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04		% Very Fine Sand >.0625 - 125 mm	3.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04		% Very Coarse Sand >1 - 2 mm	13	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04		% Silt	7.8	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04		% Medium Sand >.25 - .5 mm	22	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04		% Fine Sand >.125 - .25 mm	29	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04		% Clay & Colloids	10	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD14	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 415.1mod / SOP C-88	10/14/2011 17:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-04	10-19-5	Organic Carbon, Total	60000	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7429-90-5	Aluminum	3800	TRG	Yes	N		N/A	N/A	N	24			5.4	24	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7439-89-6	Iron	2200	TRG	Yes	Y		N/A	N/A	N	24			3.6	24	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.43	1.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7440-38-2	Arsenic	5.5	TRG	Yes	Y	J	N/A	N/A	N	1.9	mg/kg	mg/kg	0.85	1.9	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	24	mg/kg	mg/kg	8.8	24	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.71	mg/kg	mg/kg	0.43	0.71	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	10	QUANT	1109052-05	7440-70-2	Calcium	250000	TRG	Yes	N		N/A	N/A	N	1200	mg/kg	mg/kg	570	1200	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.71	mg/kg	mg/kg	0.43	0.71	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	4.7	mg/kg	mg/kg	1.8	4.7	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7440-47-3	Chromium	7.1	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.85	1.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7440-50-8	Copper	7.2	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.3	2.4	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7440-09-7	Potassium	2300	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	45	120	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7439-95-4	Magnesium	13000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	40	120	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7439-96-5	Manganese	100	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.88	1.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7440-23-5	Sodium	46000	TRG	Yes	N		N/A	N/A	N	240	mg/kg	mg/kg	81	240	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7440-02-0	Nickel	ND	TRG	Yes	Y		N/A	N/A	N	4.7	mg/kg	mg/kg	1.8	4.7	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD15	N/A	N/A	Solid	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109052-05	7439-92-1	Lead	1.9	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	1.0	1.9	N/A	St. Cro

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	MAN-SW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-07	7440-66-6	Zinc	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	09/19/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-07	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 300.0/ SOP C-94	09/22/2011 17:01	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109052-07	16887-00-6	Chloride	16000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7429-90-5	Aluminum	980	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7439-89-6	Iron	1000	TRG	Yes	N		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-38-2	Arsenic	ND	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-70-2	Calcium	400000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-47-3	Chromium	ND	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-09-7	Potassium	470000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7439-95-4	Magnesium	1300000	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7439-96-5	Manganese	28	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109052-08	7440-23-5	Sodium	9700000	TRG	Yes	N		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7439-92-1	Lead	ND	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-62-2	Vanadium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	09/19/2011 18:17	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-08	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW12	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 300.0/ SOP C-94	09/22/2011 17:15	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109052-08	16887-00-6	Chloride	16000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7429-90-5	Aluminum	1600	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7439-89-6	Iron	540	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-38-2	Arsenic	41	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-70-2	Calcium	360000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-47-3	Chromium	ND	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-09-7	Potassium	480000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7439-95-4	Magnesium	1300000	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7439-96-5	Manganese	76	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109052-09	7440-23-5	Sodium	10000000	TRG	Yes	N		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7439-92-1	Lead	ND	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 200.7 / SOP C-109	09/24/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 245.1 / SOP C-110	09/19/2011 18:26	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109052-09	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW13	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/12/2011				N	EPA 300.0/ SOP C-94	09/22/2011 17:37	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109052-09	16887-00-6	Chloride	21000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7429-90-5	Aluminum	ND	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7439-89-6	Iron	ND	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-38-2	Arsenic	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-70-2	Calcium	ND	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-09-7	Potassium	ND	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7439-95-4	Magnesium	ND	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7439-96-5	Manganese	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/21/2011 12:46	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-23-5	Sodium	ND	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	270	1000	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	09/21/2011 18:28	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-03	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7429-90-5	Aluminum	ND	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN01	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7439-89-6	Iron	ND	TRG	Yes	N		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-38-2	Arsenic	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-70-2	Calcium	ND	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-09-7	Potassium	ND	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7439-95-4	Magnesium	ND	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7439-96-5	Manganese	ND	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/21/2011 12:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-23-5	Sodium	ND	TRG	Yes	N		N/A	N/A	N	1000	ug/L	ug/L	270	1000	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:16	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	WST- RIN02	N/A	N/A	Aqueous	Rinsate Blank	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	09/21/2011 18:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109054-04	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.49	mg/kg	mg/kg	0.18	0.49	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7429-90-5	Aluminum	28000	TRG	Yes	N		N/A	N/A	N	9.8	mg/kg	mg/kg	3.6	9.8	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-38-2	Arsenic	13	TRG	Yes	Y		N/A	N/A	N	0.79	mg/kg	mg/kg	0.35	0.79	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-39-3	Barium	98	TRG	Yes	N		N/A	N/A	N	9.8	mg/kg	mg/kg	3.6	9.8	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.29	mg/kg	mg/kg	0.18	0.29	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	10	QUANT	1109055-01	7440-70-2	Calcium	140000	TRG	Yes	Y		N/A	N/A	N	490	mg/kg	mg/kg	240	490	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.29	mg/kg	mg/kg	0.18	0.29	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-48-4	Cobalt	8.9	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.73	2.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-47-3	Chromium	25	TRG	Yes	Y		N/A	N/A	N	0.49	mg/kg	mg/kg	0.35	0.49	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-50-8	Copper	41	TRG	Yes	Y		N/A	N/A	N	0.98	mg/kg	mg/kg	0.55	0.98	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7439-89-6	Iron	22000	TRG	Yes	Y		N/A	N/A	N	9.8	mg/kg	mg/kg	1.6	9.8	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-09-7	Potassium	3700	TRG	Yes	Y		N/A	N/A	N	49	mg/kg	mg/kg	19	49	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7439-95-4	Magnesium	9200	TRG	Yes	Y		N/A	N/A	N	49	mg/kg	mg/kg	17	49	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7439-96-5	Manganese	430	TRG	Yes	Y		N/A	N/A	N	0.49	mg/kg	mg/kg	0.36	0.49	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-23-5	Sodium	3900	TRG	Yes	Y		N/A	N/A	N	98	mg/kg	mg/kg	33	98	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-02-0	Nickel	10	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.75	2.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7439-92-1	Lead	3.2	TRG	Yes	Y		N/A	N/A	N	0.79	mg/kg	mg/kg	0.41	0.79	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	1.4	2.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	1.2	2.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.90	2.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-62-2	Vanadium	110	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.74	2.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7440-66-6	Zinc	33	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.72	2.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	10/04/2011 16:39	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.054	mg/kg	mg/kg	0.054		N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01		% Gravel & Larger >2.0 mm	34	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01		% Coarse Sand >0.42 - 2.0 mm	6.3	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01		% Very Fine Sand >.0625 - 125 mm	3.9	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01		% Very Coarse Sand >1 - 2 mm	11	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01		% Silt	14	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01		% Medium Sand >.25 - .5 mm	5.0	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01		% Fine Sand >.125 - .25 mm	5.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01		% Clay & Colloids	20	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD48	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 415.1mod / SOP C-88	10/31/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-01	10-19-5	Organic Carbon, Total	11000	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.33	0.91	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7429-90-5	Aluminum	31000	TRG	Yes	Y		N/A	N/A	N	18	mg/kg	mg/kg	6.6	18	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7440-38-2	Arsenic	12	TRG	Yes	Y		N/A	N/A	N	1.5	mg/kg	mg/kg	0.66	1.5	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7440-39-3	Barium	410	TRG	Yes	N		N/A	N/A	N	18	mg/kg	mg/kg	6.8	18	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7440-41-7	Beryllium	1.2	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.33	0.55	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7440-70-2	Calcium	55000	TRG	Yes	Y		N/A	N/A	N	91	mg/kg	mg/kg	44	91	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.33	0.55	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7440-48-4	Cobalt	6.2	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	1.0	1.8	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7440-47-3	Chromium	96	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.66	0.91	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7440-50-8	Copper	29	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	1.0	1.8	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7439-89-6	Iron	33000	TRG	Yes	Y		N/A	N/A	N	18	mg/kg	mg/kg	2.9	18	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7440-09-7	Potassium	5000	TRG	Yes	Y		N/A	N/A	N	91	mg/kg	mg/kg	35	91	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7439-95-4	Magnesium	17000	TRG	Yes	Y		N/A	N/A	N	91	mg/kg	mg/kg	31	91	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7439-96-5	Manganese	230	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.68	0.91	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7440-23-5	Sodium	19000	TRG	Yes	N		N/A	N/A	N	180	mg/kg	mg/kg	62	180	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7440-02-0	Nickel	22	TRG	Yes	Y		N/A	N/A	N	3.7	mg/kg	mg/kg	1.4	3.7	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD49	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-02	7439-92

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	ADP-SD51	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-04	7440-62-2	Vanadium	62	TRG	Yes	Y		N/A	N/A	N	3.0	mg/kg	mg/kg	1.1	3.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD51	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-04	7440-66-6	Zinc	42	TRG	Yes	Y		N/A	N/A	N	3.0	mg/kg	mg/kg	1.1	3.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD51	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	10/04/2011 16:46	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-04	7439-97-6	Mercury	0.233	TRG	Yes	N		N/A	N/A	N	0.094	mg/kg	mg/kg		0.094	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD51	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-04		% Gravel & Larger >2.0 mm	0.40	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD51	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-04		% Coarse Sand >0.42 - 2.0 mm	2.6	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD51	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-04		% Very Fine Sand >.0625 - .125 mm	12	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD51	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-04		% Very Coarse Sand >1 - 2 mm	1.0	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD51	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-04		% Silt	48	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD51	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-04		% Medium Sand >.25 - .5 mm	12	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD51	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-04		% Fine Sand >.125 - .25 mm	14	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD51	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-04		% Clay & Colloids	9.2	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SD51	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 415.1mod / SOP C-88	10/31/2011 13:25	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-04	10-19-5	Organic Carbon, Total	290000	TRG	Yes	N		N/A	N/A	N	mg/kg	mg/kg				N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7439-89-6	Iron	5200	TRG	Yes	Y		N/A	N/A	N	12			1.7	12	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.58	mg/kg	mg/kg	0.21	0.58	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7429-90-5	Aluminum	18000	TRG	Yes	N		N/A	N/A	N	12	mg/kg	mg/kg	4.2	12	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-38-2	Arsenic	12	TRG	Yes	Y		N/A	N/A	N	0.93	mg/kg	mg/kg	0.42	0.93	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.3	12	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	10	QUANT	1109055-05	7440-70-2	Calcium	220000	TRG	Yes	N		N/A	N/A	N	580	mg/kg	mg/kg	280	580	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.86	2.3	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-47-3	Chromium	45	TRG	Yes	Y		N/A	N/A	N	0.58	mg/kg	mg/kg	0.42	0.58	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-50-8	Copper	13	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.65	1.2	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-09-7	Potassium	1300	TRG	Yes	N		N/A	N/A	N	58	mg/kg	mg/kg	22	58	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7439-95-4	Magnesium	32000	TRG	Yes	Y		N/A	N/A	N	58	mg/kg	mg/kg	20	58	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7439-96-5	Manganese	98	TRG	Yes	Y		N/A	N/A	N	0.58	mg/kg	mg/kg	0.43	0.58	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-23-5	Sodium	10000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	40	120	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-02-0	Nickel	5.1	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.89	2.3	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7439-92-1	Lead	3.6	TRG	Yes	Y		N/A	N/A	N	0.93	mg/kg	mg/kg	0.49	0.93	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.1	2.3	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-62-2	Vanadium	200	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.87	2.3	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7440-66-6	Zinc	13	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.85	2.3	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	10/04/2011 16:48	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.072	mg/kg	mg/kg		0.072	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05		% Gravel & Larger >2.0 mm	21	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05		% Coarse Sand >0.42 - 2.0 mm	6.7	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05		% Very Fine Sand >.0625 - .125 mm	8.4	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05		% Very Coarse Sand >1 - 2 mm	8.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05		% Silt	18	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05		% Medium Sand >.25 - .5 mm	9.3	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05		% Fine Sand >.125 - .25 mm	13	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/04/2011 09:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05		% Clay & Colloids	16	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD26	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 415.1mod / SOP C-88	10/27/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-05	10-19-5	Organic Carbon, Total	54000	TRG	Yes	N		N/A	N/A	N	mg/kg	mg/kg				N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7429-90-5	Aluminum	23000	TRG	Yes	Y		N/A	N/A	N	35			8.0	35	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7439-89-6	Iron	6800	TRG	Yes	Y		N/A	N/A	N	35			5.3	35	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.64	1.8	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-38-2	Arsenic	25	TRG	Yes	Y		N/A	N/A	N	2.8	mg/kg	mg/kg	1.3	2.8	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	35	mg/kg	mg/kg	13	35	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.64	1.1	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-70-2	Calcium	140000	TRG	Yes	Y		N/A	N/A	N	180	mg/kg	mg/kg	85	180	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.64	1.1	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	7.1	mg/kg	mg/kg	2.6	7.1	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-47-3	Chromium	120	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	1.3	1.8	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-50-8	Copper	18	TRG	Yes	Y		N/A	N/A	N	3.5	mg/kg	mg/kg	2.0	3.5	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-09-7	Potassium	4000	TRG	Yes	N		N/A	N/A	N	180	mg/kg	mg/kg	67	180	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7439-95-4	Magnesium	42000	TRG	Yes	Y		N/A	N/A	N	180	mg/kg	mg/kg	60	180	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7439-96-5	Manganese	230	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	1.3	1.8	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-23-5	Sodium	47000	TRG	Yes	N		N/A	N/A	N	350	mg/kg	mg/kg	120	350	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-02-0	Nickel	ND	TRG	Yes	Y		N/A	N/A	N	7.1	mg/kg	mg/kg	2.7	7.1	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7439-92-1	Lead	3.6	TRG	Yes	Y		N/A	N/A	N	2.8	mg/kg	mg/kg	1.5	2.8	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	7.1	mg/kg	mg/kg	4.9	7.1	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	7.1	mg/kg	mg/kg	4.2	7.1	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	7.1	mg/kg	mg/kg	3.2	7.1	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-62-2	Vanadium	220	TRG	Yes	Y		N/A	N/A	N	7.1	mg/kg	mg/kg	2.6	7.1	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7440-66-6	Zinc	21	TRG	Yes	Y		N/A	N/A	N	7.1	mg/kg	mg/kg	2.6	7.1	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	10/04/2011 16:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.214	mg/kg	mg/kg		0.214	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06		% Gravel & Larger >2.0 mm	ND	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06		% Coarse Sand >0.42 - 2.0 mm	7.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06		% Very Fine Sand >.0625 - .125 mm	3.5	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06		% Very Coarse Sand >1 - 2 mm	27	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06		% Silt	35	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06		% Medium Sand >.25 - .5 mm	3.3	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06		% Fine Sand >.125 - .25 mm	2.7	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD27	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-06		% Clay & Colloids	21	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7429-90-5	Aluminum	30000	TRG	Yes	N		N/A	N/A	N	11	mg/kg	mg/kg	4.0	11	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-38-2	Arsenic	33	TRG	Yes	Y		N/A	N/A	N	0.89	mg/kg	mg/kg	0.40	0.89	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-39-3	Barium	50	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.33	mg/kg	mg/kg	0.20	0.33	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	10	QUANT	1109055-09	7440-70-2	Calcium	220000	TRG	Yes	N		N/A	N/A	N	560	mg/kg	mg/kg	270	560	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.33	mg/kg	mg/kg	0.20	0.33	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-48-4	Cobalt	3.0	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.82	2.2	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-47-3	Chromium	120	TRG	Yes	Y		N/A	N/A	N	0.56	mg/kg	mg/kg	0.40	0.56	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-50-8	Copper	17	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.62	1.1	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-09-7	Potassium	1500	TRG	Yes	N		N/A	N/A	N	56	mg/kg	mg/kg	21	56	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7439-95-4	Magnesium	44000	TRG	Yes	Y		N/A	N/A	N	56	mg/kg	mg/kg	19	56	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7439-96-5	Manganese	250	TRG	Yes	Y		N/A	N/A	N	0.56	mg/kg	mg/kg	0.41	0.56	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-23-5	Sodium	12000	TRG	Yes	N		N/A	N/A	N	110	mg/kg	mg/kg	38	110	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-02-0	Nickel	5.4	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.84	2.2	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7439-92-1	Lead	4.7	TRG	Yes	Y		N/A	N/A	N	0.89	mg/kg	mg/kg	0.47	0.89	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.6	2.2	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7782-49-2	Selenium	2.9	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.0	2.2	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-62-2	Vanadium	440	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.83	2.2	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7440-66-6	Zinc	149	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.81	2.2	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	10/04/2011 17:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.067	mg/kg	mg/kg		0.067	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09		% Gravel & Larger >2.0 mm	15	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09		% Coarse Sand >0.42 - 2.0 mm	10	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09		% Very Fine Sand >.0625 - .125 mm	8.7	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09		% Very Coarse Sand >1 - 2 mm	11	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09		% Silt	9.9	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09		% Medium Sand >.25 - .5 mm	14	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09		% Fine Sand >.125 - .25 mm	22	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09		% Clay & Colloids	9.0	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD30	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 415.1mod / SOP C-88	10/28/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-09	10-19-5	Organic Carbon, Total	49000	TRG	Yes	N		N/A	N/A	N	mg/kg	mg/kg				N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7429-90-5	Aluminum	500	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7439-89-6	Iron	670	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-38-2	Arsenic	8.0	TRG	Yes	Y	J	N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-70-2	Calcium	400000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-50-8	Copper	ND	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-09-7	Potassium	480000	TRG	Yes	Y	J	N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7439-95-4	Magnesium	1300000	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7439-96-5	Manganese	25	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109055-10	7440-23-5	Sodium	10000000	TRG	Yes	N		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7439-92-1	Lead	ND	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-36-0	Antimony	ND	TRG	Yes	Y	J	N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7782-49-2	Selenium	ND	TRG	Yes	N	L	N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7440-66-6	Zinc	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	09/21/2011 18:32	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-10	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW19	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 300.0/ SOP C-94	09/22/2011 17:44	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-10	16887-00-6	Chloride	16000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7429-90-5	Aluminum	10000	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7439-89-6	Iron	1300	TRG	Yes	N		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-38-2	Arsenic	150	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-70-2	Calcium	820	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-47-3	Chromium	16000	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-50-8	Copper	ND	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-09-7	Potassium	42000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7439-95-4	Magnesium	ND	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109055-11	7440-23-5	Sodium	2800000	TRG	Yes	N		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7439-92-1	Lead	ND	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7782-49-2	Selenium	640	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	09/24/2011 17:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-11	7440-66-6	Zinc	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	09/21/2011 18:43	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-13	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW42	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/15/2011				N	EPA 300.0/ SOP C-94

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	lask_code	result_comment
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14	7439-92-1	Lead	150	TRG	Yes	Y		N/A	N/A	N	0.53	mg/kg	mg/kg	0.28	0.53	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.93	1.3	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.80	1.3	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.61	1.3	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14	7440-62-2	Vanadium	59	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.50	1.3	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14	7440-66-6	Zinc	460	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.48	1.3	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/04/2011 12:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.049	mg/kg	mg/kg		0.049	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14		% Gravel & Larger >2.0 mm	17	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14		% Coarse Sand >0.42 - 2.0 mm	16	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14		% Very Fine Sand >.0625 - 125 mm	6.3	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14		% Very Coarse Sand >1 - 2 mm	11	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14		% Silt	20	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14		% Medium Sand >.25 - .5 mm	14	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14		% Fine Sand >.125 - .25 mm	9.2	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14		% Clay & Colloids	6.2	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD19	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 415.1mod / SOP C-88	10/27/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-14	10-19-5	Organic Carbon, Total	41000	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.17	0.46	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7429-90-5	Aluminum	72000	TRG	Yes	Y		N/A	N/A	N	9.2	mg/kg	mg/kg	3.3	9.2	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-38-2	Arsenic	7.8	TRG	Yes	Y		N/A	N/A	N	0.74	mg/kg	mg/kg	0.33	0.74	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-39-3	Barium	84	TRG	Yes	Y		N/A	N/A	N	9.2	mg/kg	mg/kg	3.4	9.2	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.28	mg/kg	mg/kg	0.17	0.28	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-70-2	Calcium	18000	TRG	Yes	N		N/A	N/A	N	46	mg/kg	mg/kg	22	46	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-43-9	Cadmium	2.1	TRG	Yes	Y	J	N/A	N/A	N	0.28	mg/kg	mg/kg	0.17	0.28	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.68	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-47-3	Chromium	480	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.33	0.46	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-50-8	Copper	11	TRG	Yes	Y		N/A	N/A	N	0.92	mg/kg	mg/kg	0.52	0.92	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	10	QUANT	1109055-15	7439-89-6	Iron	250000	TRG	Yes	Y		N/A	N/A	N	92	mg/kg	mg/kg	15	92	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-09-7	Potassium	470	TRG	Yes	Y		N/A	N/A	N	46	mg/kg	mg/kg	18	46	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7439-95-4	Magnesium	750	TRG	Yes	Y		N/A	N/A	N	46	mg/kg	mg/kg	16	46	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7439-96-5	Manganese	51	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.34	0.46	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-23-5	Sodium	33000	TRG	Yes	Y		N/A	N/A	N	92	mg/kg	mg/kg	31	92	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-02-0	Nickel	10	TRG	Yes	Y	J	N/A	N/A	N	1.8	mg/kg	mg/kg	0.70	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7439-92-1	Lead	40	TRG	Yes	Y		N/A	N/A	N	0.74	mg/kg	mg/kg	0.39	0.74	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-36-0	Antimony	ND	TRG	Yes	Y	J	N/A	N/A	N	1.8	mg/kg	mg/kg	1.3	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7782-49-2	Selenium	ND	TRG	Yes	Y	J	N/A	N/A	N	1.8	mg/kg	mg/kg	1.1	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.85	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-62-2	Vanadium	700	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.69	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 14:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7440-66-6	Zinc	12	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.67	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/04/2011 12:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	7439-97-6	Mercury	0.320	TRG	Yes	N		N/A	N/A	N	0.041	mg/kg	mg/kg		0.041	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15		% Gravel & Larger >2.0 mm	ND	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15		% Coarse Sand >0.42 - 2.0 mm	0.30	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15		% Very Fine Sand >.0625 - 125 mm	9.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15		% Very Coarse Sand >1 - 2 mm	ND	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15		% Silt	65	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15		% Medium Sand >.25 - .5 mm	1.7	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15		% Fine Sand >.125 - .25 mm	6.5	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15		% Clay & Colloids	18	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD42	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 415.1mod / SOP C-88	10/27/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-15	10-19-5	Organic Carbon, Total	28000	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.43	mg/kg	mg/kg	0.15	0.43	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	10	QUANT	1109055-16	7429-90-5	Aluminum	74000	TRG	Yes	Y		N/A	N/A	N	85	mg/kg	mg/kg	31	85	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-38-2	Arsenic	8.8	TRG	Yes	Y		N/A	N/A	N	0.68	mg/kg	mg/kg	0.31	0.68	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-39-3	Barium	75	TRG	Yes	Y		N/A	N/A	N	8.5	mg/kg	mg/kg	3.2	8.5	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.26	mg/kg	mg/kg	0.15	0.26	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-70-2	Calcium	17000	TRG	Yes	N		N/A	N/A	N	43	mg/kg	mg/kg	20	43	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-43-9	Cadmium	1.9	TRG	Yes	Y		N/A	N/A	N	0.26	mg/kg	mg/kg	0.15	0.26	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.63	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-47-3	Chromium	430	TRG	Yes	Y		N/A	N/A	N	0.43	mg/kg	mg/kg	0.31	0.43	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-50-8	Copper	11	TRG	Yes	Y		N/A	N/A	N	0.85	mg/kg	mg/kg	0.48	0.85	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	10	QUANT	1109055-16	7439-89-6	Iron	210000	TRG	Yes	Y		N/A	N/A	N	85	mg/kg	mg/kg	14	85	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-09-7	Potassium	450	TRG	Yes	Y		N/A	N/A	N	43	mg/kg	mg/kg	16	43	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7439-95-4	Magnesium	690	TRG	Yes	Y		N/A	N/A	N	43	mg/kg	mg/kg	15	43	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7439-96-5	Manganese	42	TRG	Yes	Y		N/A	N/A	N	0.43	mg/kg	mg/kg	0.32	0.43	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-23-5	Sodium	30000	TRG	Yes	Y		N/A	N/A	N	85	mg/kg	mg/kg	29	85	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-02-0	Nickel	9.2	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.65	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7439-92-1	Lead	34	TRG	Yes	Y		N/A	N/A	N	0.68	mg/kg	mg/kg	0.36	0.68	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	1.2	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	1.0	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.79	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-62-2	Vanadium	620	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.64	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7440-66-6	Zinc	10	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.62	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/04/2011 12:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16	7439-97-6	Mercury	0.338	TRG	Yes	N		N/A	N/A	N	0.048	mg/kg	mg/kg		0.048	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16		% Gravel & Larger >2.0 mm	0.10	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16		% Coarse Sand >0.42 - 2.0 mm	0.30	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16		% Very Fine Sand >.0625 - 125 mm	8.5	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD43	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-16		% Very Coarse Sand >1 - 2 mm	ND	TRG

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	lask_code	result_comment
DESA	RMS-SD46	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-18		% Clay & Colloids	22	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD46	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 415.1mod / SOP C-88	10/28/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-18	10-19-5	Organic Carbon, Total	24000	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.44	mg/kg	mg/kg	0.16	0.44	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7429-90-5	Aluminum	38000	TRG	Yes	Y		N/A	N/A	N	8.7	mg/kg	mg/kg	3.2	8.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-38-2	Arsenic	15	TRG	Yes	Y		N/A	N/A	N	0.70	mg/kg	mg/kg	0.31	0.70	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-39-3	Barium	73	TRG	Yes	Y		N/A	N/A	N	8.7	mg/kg	mg/kg	3.2	8.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.26	mg/kg	mg/kg	0.16	0.26	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-70-2	Calcium	27000	TRG	Yes	Y		N/A	N/A	N	44	mg/kg	mg/kg	21	44	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-43-9	Cadmium	4.4	TRG	Yes	Y		N/A	N/A	N	0.26	mg/kg	mg/kg	0.16	0.26	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-48-4	Cobalt	2.8	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.65	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-47-3	Chromium	360	TRG	Yes	Y		N/A	N/A	N	0.44	mg/kg	mg/kg	0.31	0.44	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-50-8	Copper	14	TRG	Yes	Y		N/A	N/A	N	0.87	mg/kg	mg/kg	0.49	0.87	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	10	QUANT	1109055-19	7439-89-6	Iron	340000	TRG	Yes	Y		N/A	N/A	N	87	mg/kg	mg/kg	14	87	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-09-7	Potassium	220	TRG	Yes	Y		N/A	N/A	N	44	mg/kg	mg/kg	17	44	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7439-95-4	Magnesium	1100	TRG	Yes	N		N/A	N/A	N	44	mg/kg	mg/kg	15	44	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7439-96-5	Manganese	310	TRG	Yes	Y		N/A	N/A	N	0.44	mg/kg	mg/kg	0.32	0.44	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-23-5	Sodium	16000	TRG	Yes	Y		N/A	N/A	N	87	mg/kg	mg/kg	30	87	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-02-0	Nickel	12	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.66	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7439-92-1	Lead	44	TRG	Yes	Y		N/A	N/A	N	0.70	mg/kg	mg/kg	0.37	0.70	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	1.7	mg/kg	mg/kg	1.2	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7782-49-2	Selenium	2.7	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	1.0	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	1.7	mg/kg	mg/kg	0.80	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-62-2	Vanadium	1100	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.66	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7440-66-6	Zinc	19	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.64	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/04/2011 13:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	7439-97-6	Mercury	0.140	TRG	Yes	N		N/A	N/A	N	0.044	mg/kg	mg/kg		0.044	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19		% Gravel & Larger >2.0 mm	0.40	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19		% Coarse Sand >0.42 - 2.0 mm	3.8	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19		% Very Fine Sand >.0625 - 125 mm	11	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19		% Very Coarse Sand >1 - 2 mm	0.60	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19		% Silt	23	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19		% Medium Sand >.25 - .5 mm	21	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19		% Fine Sand >.125 - .25 mm	32	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19		% Clay & Colloids	8.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SD47	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 415.1mod / SOP C-88	10/27/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-19	10-19-5	Organic Carbon, Total	3600	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.56	mg/kg	mg/kg	0.20	0.56	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7429-90-5	Aluminum	71000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-38-2	Arsenic	26	TRG	Yes	Y		N/A	N/A	N	0.89	mg/kg	mg/kg	0.40	0.89	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-39-3	Barium	24	TRG	Yes	N		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.33	mg/kg	mg/kg	0.20	0.33	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-70-2	Calcium	39000	TRG	Yes	Y		N/A	N/A	N	56	mg/kg	mg/kg	27	56	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.33	mg/kg	mg/kg	0.20	0.33	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-48-4	Cobalt	3.5	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.83	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-47-3	Chromium	230	TRG	Yes	Y		N/A	N/A	N	0.56	mg/kg	mg/kg	0.40	0.56	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-50-8	Copper	27	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.63	1.1	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7439-89-6	Iron	44000	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	1.8	1.1	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-09-7	Potassium	1500	TRG	Yes	N		N/A	N/A	N	56	mg/kg	mg/kg	21	56	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7439-95-4	Magnesium	87000	TRG	Yes	Y		N/A	N/A	N	56	mg/kg	mg/kg	19	56	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7439-96-5	Manganese	240	TRG	Yes	Y		N/A	N/A	N	0.56	mg/kg	mg/kg	0.41	0.56	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-23-5	Sodium	13000	TRG	Yes	N		N/A	N/A	N	110	mg/kg	mg/kg	38	110	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-02-0	Nickel	9.0	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.85	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7439-92-1	Lead	12	TRG	Yes	Y		N/A	N/A	N	0.89	mg/kg	mg/kg	0.47	0.89	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	2.2	mg/kg	mg/kg	1.6	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	2.2	mg/kg	mg/kg	1.0	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-62-2	Vanadium	340	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.84	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7440-66-6	Zinc	34	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.82	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	10/04/2011 13:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	7439-97-6	Mercury	0.079	TRG	Yes	N		N/A	N/A	N	0.060	mg/kg	mg/kg		0.060	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20		% Gravel & Larger >2.0 mm	13	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20		% Coarse Sand >0.42 - 2.0 mm	18	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20		% Very Fine Sand >.0625 - 125 mm	7.2	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20		% Very Coarse Sand >1 - 2 mm	15	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20		% Silt	15	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20		% Medium Sand >.25 - .5 mm	14	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20		% Fine Sand >.125 - .25 mm	8.9	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20		% Clay & Colloids	9.5	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD34	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 415.1mod / SOP C-88	10/27/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-20	10-19-5	Organic Carbon, Total	9100	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	UCP-SD35	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-21	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.72	mg/kg	mg/kg	0.26	0.72	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD35	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-21	7429-90-5	Aluminum	77000	TRG	Yes	Y		N/A	N/A	N	14	mg/kg	mg/kg	5.2	14	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD35	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-21	7440-38-2	Arsenic	11	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.52	1.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD35	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-21	7440-39-3	Barium	80	TRG	Yes	Y		N/A	N/A	N	14	mg/kg	mg/kg	5.3	14	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD35	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-21	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.43	mg/kg	mg/kg	0.26	0.43	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD35	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-21	7440-70-2	Calcium	62000	TRG	Yes	Y		N/A	N/A	N	72	mg/kg	mg/kg	35	72	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD35	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-21	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.43	mg/kg	mg/kg	0.26	0.43	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD35	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-21	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.9	mg/kg	mg/kg	1.1	2.9	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD35	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-21	7440-47-3	Chromium	390	TRG	Yes	Y		N/A	N/A	N	0.72	mg/kg	mg/kg	0.52

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:05	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23	7439-95-4	Magnesium	7700	TRG	Yes	Y		N/A	N/A	N	55	mg/kg	mg/kg	19	55	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23	7439-96-5	Manganese	93	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.41	0.55	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23	7440-23-5	Sodium	53000	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	37	110	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23	7440-02-0	Nickel	11	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.84	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23	7439-92-1	Lead	32	TRG	Yes	Y		N/A	N/A	N	0.88	mg/kg	mg/kg	0.46	0.88	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.5	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.0	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23	7440-62-2	Vanadium	540	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.82	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23	7440-66-6	Zinc	34	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.80	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	10/04/2011 13:12	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23	7439-97-6	Mercury	0.237	TRG	Yes	N		N/A	N/A	N	0.062	mg/kg	mg/kg		0.062	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23		% Gravel & Larger >2.0 mm	0.10	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23		% Coarse Sand >0.42 - 2.0 mm	1.4	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23		% Very Fine Sand >.0625 - 125 mm	3.2	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23		% Very Coarse Sand >1 - 2 mm	1.0	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23		% Silt	62	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23		% Medium Sand > 25 - .5 mm	4.0	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23		% Fine Sand >.125 - .25 mm	5.4	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23		% Clay & Colloids	23	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD39	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 415.1mod / SOP C-88	10/27/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-23	10-19-5	Organic Carbon, Total	14000	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.20	0.57	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7429-90-5	Aluminum	69000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-38-2	Arsenic	9.0	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.41	0.91	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-39-3	Barium	78	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.2	11	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.20	0.34	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-70-2	Calcium	22000	TRG	Yes	N		N/A	N/A	N	57	mg/kg	mg/kg	27	57	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-43-9	Cadmium	1.3	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.20	0.34	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.84	2.3	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-47-3	Chromium	480	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.41	0.57	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-50-8	Copper	13	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.64	1.1	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	10	QUANT	1109055-24	7439-89-6	Iron	200000	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	18	110	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-09-7	Potassium	1500	TRG	Yes	N		N/A	N/A	N	57	mg/kg	mg/kg	22	57	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7439-95-4	Magnesium	4600	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	19	57	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7439-96-5	Manganese	64	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.42	0.57	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-23-5	Sodium	41000	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	39	110	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-02-0	Nickel	11	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.86	2.3	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7439-92-1	Lead	38	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.48	0.91	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.0	2.3	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-62-2	Vanadium	640	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.85	2.3	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7440-66-6	Zinc	31	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.83	2.3	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	10/04/2011 13:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	7439-97-6	Mercury	0.314	TRG	Yes	N		N/A	N/A	N	0.054	mg/kg	mg/kg		0.054	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24		% Gravel & Larger >2.0 mm	ND	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24		% Coarse Sand >0.42 - 2.0 mm	0.30	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24		% Very Fine Sand >.0625 - 125 mm	11	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24		% Very Coarse Sand >1 - 2 mm	ND	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24		% Silt	56	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24		% Medium Sand > 25 - .5 mm	1.7	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24		% Fine Sand >.125 - .25 mm	6.3	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/11/2011 11:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24		% Clay & Colloids	25	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD40	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 415.1mod / SOP C-88	10/27/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-24	10-19-5	Organic Carbon, Total	15000	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.53	mg/kg	mg/kg	0.19	0.53	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7429-90-5	Aluminum	85000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	3.8	11	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-38-2	Arsenic	12	TRG	Yes	Y		N/A	N/A	N	0.84	mg/kg	mg/kg	0.38	0.84	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-39-3	Barium	74	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	3.9	11	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.32	mg/kg	mg/kg	0.19	0.32	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-70-2	Calcium	29000	TRG	Yes	Y		N/A	N/A	N	53	mg/kg	mg/kg	25	53	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-43-9	Cadmium	1.1	TRG	Yes	Y		N/A	N/A	N	0.32	mg/kg	mg/kg	0.19	0.32	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.1	mg/kg	mg/kg	0.78	2.1	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-47-3	Chromium	480	TRG	Yes	Y		N/A	N/A	N	0.53	mg/kg	mg/kg	0.38	0.53	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-50-8	Copper	13	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.59	1.1	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	10	QUANT	1109055-25	7439-89-6	Iron	170000	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	17	110	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-09-7	Potassium	850	TRG	Yes	Y		N/A	N/A	N	53	mg/kg	mg/kg	20	53	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7439-95-4	Magnesium	3600	TRG	Yes	Y		N/A	N/A	N	53	mg/kg	mg/kg	18	53	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7439-96-5	Manganese	71	TRG	Yes	Y		N/A	N/A	N	0.53	mg/kg	mg/kg	0.39	0.53	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-23-5	Sodium	42000	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	36	110	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-02-0	Nickel	10	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.80	2.2	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7439-92-1	Lead	26	TRG	Yes	Y		N/A	N/A	N	0.44	mg/kg	mg/kg	0.44	0.84	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.1	mg/kg	mg/kg	1.5	2.1	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.1	mg/kg	mg/kg	0.97	2.1	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-62-2	Vanadium	540	TRG	Yes	Y		N/A	N/A	N	2.1	mg/kg	mg/kg	0.79	2.1	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:17	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7440-66-6	Zinc	39	TRG	Yes	Y		N/A	N/A	N	2.1	mg/kg	mg/kg	0.77	2.1	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	10/04/2011 13:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25	7439-97-6	Mercury	0.271	TRG	Yes	N		N/A	N/A	N	0.044	mg/kg	mg/kg		0.044	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD41	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-25		% Gravel & Larger >2.0 mm	0.90	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by We

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	WES-SD23	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-27		% Very Coarse Sand >1 - 2 mm	5.3	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD23	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-27		% Silt	36	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD23	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-27		% Medium Sand >.25 - .5 mm	7.7	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD23	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-27		% Fine Sand >.125 - .25 mm	6.2	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD23	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-27		% Clay & Colloids	21	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD23	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 415.1mod / SOP C-88	10/28/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-27	10-19-5	Organic Carbon, Total	29000	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.21	0.57	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7429-90-5	Aluminum	25000	TRG	Yes	N		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-38-2	Arsenic	4.0	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.41	0.91	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-39-3	Barium	110	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.2	11	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.21	0.34	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-70-2	Calcium	87000	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	27	57	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.21	0.34	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-48-4	Cobalt	13	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.84	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-47-3	Chromium	33	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.41	0.57	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-50-8	Copper	60	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.64	1.1	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7439-89-6	Iron	26000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	1.8	11	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-09-7	Potassium	3500	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	22	57	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7439-95-4	Magnesium	15000	TRG	Yes	N		N/A	N/A	N	57	mg/kg	mg/kg	19	57	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7439-96-5	Manganese	730	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.42	0.57	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-23-5	Sodium	8100	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	39	110	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-02-0	Nickel	15	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.87	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7439-92-1	Lead	5.3	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.48	0.91	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.0	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-62-2	Vanadium	110	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.86	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:34	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7440-66-6	Zinc	52	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.83	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	10/04/2011 13:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.052	mg/kg	mg/kg		0.052	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28		% Gravel & Larger >2.0 mm	20	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28		% Coarse Sand >0.42 - 2.0 mm	5.6	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28		% Very Fine Sand >.0625 - .125 mm	6.5	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28		% Very Coarse Sand >1 - 2 mm	6.8	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28		% Silt	30	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28		% Medium Sand >.25 - .5 mm	6.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28		% Fine Sand >.125 - .25 mm	7.9	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28		% Clay & Colloids	17	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	WES-SD24	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 415.1mod / SOP C-88	10/28/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-28	10-19-5	Organic Carbon, Total	35000	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-29		% Gravel & Larger >2.0 mm	13	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-29		% Coarse Sand >0.42 - 2.0 mm	28	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-29		% Very Fine Sand >.0625 - .125 mm	2.8	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-29		% Very Coarse Sand >1 - 2 mm	26	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-29		% Medium Sand >.25 - .5 mm	14	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-29		% Fine Sand >.125 - .25 mm	13	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD53	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-29		%Silt + % Clay/Colloids (%Total Fines	3.4	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-30		% Gravel & Larger >2.0 mm	14	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-30		% Coarse Sand >0.42 - 2.0 mm	31	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-30		% Very Fine Sand >.0625 - .125 mm	1.8	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-30		% Very Coarse Sand >1 - 2 mm	16	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-30		% Silt	2.0	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-30		% Medium Sand >.25 - .5 mm	21	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-30		% Fine Sand >.125 - .25 mm	15	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD54	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-30		% Clay & Colloids	ND	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-31		% Gravel & Larger >2.0 mm	9.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-31		% Coarse Sand >0.42 - 2.0 mm	5.8	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-31		% Very Fine Sand >.0625 - .125 mm	8.7	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-31		% Very Coarse Sand >1 - 2 mm	5.3	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-31		% Silt	28	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-31		% Medium Sand >.25 - .5 mm	9.0	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-31		% Fine Sand >.125 - .25 mm	13	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD55	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-31		% Clay & Colloids	21	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD56	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-32		% Gravel & Larger >2.0 mm	8.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD56	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-32		% Coarse Sand >0.42 - 2.0 mm	10	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD56	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-32		% Very Fine Sand >.0625 - .125 mm	8.2	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD56	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-32		% Very Coarse Sand >1 - 2 mm	5.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD56	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-32		% Silt	22	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD56	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-32		% Medium Sand >.25 - .5 mm	16	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD56	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-32		% Fine Sand >.125 - .25 mm	14	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD56	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-32		%Silt + % Clay/Colloids (%Total Fines	2.7	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	BG-SD56	N/A	N/A	Solid	Sample	FIELD	N/A	09/13/2011				N	EPA 415.1mod / SOP C-88	10/28/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-32	10-19-5	Organic Carbon, Total	32000	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	LCP-SD31	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:40	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-33	7440-22-4	Silver	ND	TRG	Yes	Y	J	N/A	N/A	N	1.4	mg/kg	mg/kg	0.52	1.4	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD31	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:40	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-33	7429-90-5	Aluminum	95000	TRG	Yes	Y	J	N/A	N/A	N	29	mg/kg	mg/kg	10	29	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD31	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:40	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-33	7440-38-2	Arsenic	22	TRG	Yes	Y	J	N/A	N/A	N	2.3	mg/kg	mg/kg	1.0	2.3	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD31	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:40	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-33	7440-39-3	Barium	ND	TRG	Yes	N	J	N/A	N/A	N	29	mg/kg	mg/kg	11	29	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD31	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 16:40	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-33	7440-41-7	Beryllium	ND	TRG	Yes	Y	J	N/A	N/A	N	0.87	mg/kg	mg/kg	0.52	0

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7440-50-8	Copper	18	TRG	Yes	Y	J	N/A	N/A	N	2.7	mg/kg	mg/kg	1.5	2.7	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7440-09-7	Potassium	1700	TRG	Yes	Y	J	N/A	N/A	N	140	mg/kg	mg/kg	52	140	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7439-95-4	Magnesium	140000	TRG	Yes	Y	J	N/A	N/A	N	140	mg/kg	mg/kg	47	140	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7439-96-5	Manganese	150	TRG	Yes	Y	J	N/A	N/A	N	1.4	mg/kg	mg/kg	1.0	1.4	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7440-23-5	Sodium	34000	TRG	Yes	N	J	N/A	N/A	N	270	mg/kg	mg/kg	93	270	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7440-02-0	Nickel	5.5	TRG	Yes	Y	J	N/A	N/A	N	5.5	mg/kg	mg/kg	2.1	5.5	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7439-92-1	Lead	ND	TRG	Yes	Y	J	N/A	N/A	N	2.2	mg/kg	mg/kg	1.2	2.2	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7440-36-0	Antimony	ND	TRG	Yes	Y	J	N/A	N/A	N	5.5	mg/kg	mg/kg	3.8	5.5	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7782-49-2	Selenium	ND	TRG	Yes	Y	J	N/A	N/A	N	5.5	mg/kg	mg/kg	3.3	5.5	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7440-28-0	Thallium	ND	TRG	Yes	Y	J	N/A	N/A	N	5.5	mg/kg	mg/kg	2.5	5.5	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7440-62-2	Vanadium	320	TRG	Yes	Y	J	N/A	N/A	N	5.5	mg/kg	mg/kg	2.1	5.5	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7440-66-6	Zinc	33	TRG	Yes	Y	J	N/A	N/A	N	5.5	mg/kg	mg/kg	2.0	5.5	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	10/04/2011 13:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	7439-97-6	Mercury	ND	TRG	Yes	N	J	N/A	N/A	N	0.135	mg/kg	mg/kg		0.135	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35		% Gravel & Larger >2.0 mm	12	TRG	Yes	N	J	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35		% Coarse Sand >0.42 - 2.0 mm	22	TRG	Yes	N	J	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35		% Very Fine Sand >.0625 - .125 mm	2.8	TRG	Yes	N	J	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35		% Very Coarse Sand >1 - 2 mm	36	TRG	Yes	N	J	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35		% Medium Sand >.25 - .5 mm	11	TRG	Yes	N	J	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35		% Fine Sand >.125 - .25 mm	6.6	TRG	Yes	N	J	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35		%Silt + % Clay/Colloids (%Total Fines)	10	TRG	Yes	N	J	N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SD33	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 415.1mod / SOP C-88	10/28/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-35	10-19-5	Organic Carbon, Total	12000	TRG	Yes	N	J	N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7439-89-6	Iron	7400	TRG	Yes	Y	J	N/A	N/A	N	11	mg/kg	mg/kg	1.6	11	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-22-4	Silver	ND	TRG	Yes	Y	J	N/A	N/A	N	0.54	mg/kg	mg/kg	0.19	0.54	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7429-90-5	Aluminum	9700	TRG	Yes	Y	J	N/A	N/A	N	11	mg/kg	mg/kg	3.9	11	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-38-2	Arsenic	5.3	TRG	Yes	Y	J	N/A	N/A	N	0.86	mg/kg	mg/kg	0.39	0.86	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-39-3	Barium	22	TRG	Yes	N	J	N/A	N/A	N	11	mg/kg	mg/kg	4.0	11	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-41-7	Beryllium	ND	TRG	Yes	Y	J	N/A	N/A	N	0.32	mg/kg	mg/kg	0.19	0.32	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	10	QUANT	1109055-36	7440-70-2	Calcium	300000	TRG	Yes	Y	J	N/A	N/A	N	540	mg/kg	mg/kg	260	540	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-43-9	Cadmium	ND	TRG	Yes	N	J	N/A	N/A	N	0.32	mg/kg	mg/kg	0.19	0.32	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-48-4	Cobalt	ND	TRG	Yes	Y	J	N/A	N/A	N	2.2	mg/kg	mg/kg	0.80	2.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-47-3	Chromium	28	TRG	Yes	Y	J	N/A	N/A	N	0.54	mg/kg	mg/kg	0.39	0.54	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-50-8	Copper	7.2	TRG	Yes	Y	J	N/A	N/A	N	1.1	mg/kg	mg/kg	0.60	1.1	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7439-89-6	Iron	6900	TRG	Yes	Y	J	N/A	N/A	N	11	mg/kg	mg/kg	1.7	11	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-09-7	Potassium	1400	TRG	Yes	N	J	N/A	N/A	N	54	mg/kg	mg/kg	21	54	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7439-95-4	Magnesium	12000	TRG	Yes	N	J	N/A	N/A	N	54	mg/kg	mg/kg	18	54	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7439-96-5	Manganese	230	TRG	Yes	Y	J	N/A	N/A	N	0.54	mg/kg	mg/kg	0.40	0.54	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-23-5	Sodium	26000	TRG	Yes	N	J	N/A	N/A	N	110	mg/kg	mg/kg	37	110	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-02-0	Nickel	2.2	TRG	Yes	Y	J	N/A	N/A	N	2.2	mg/kg	mg/kg	0.82	2.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7439-92-1	Lead	4.3	TRG	Yes	Y	J	N/A	N/A	N	0.86	mg/kg	mg/kg	0.45	0.86	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-36-0	Antimony	ND	TRG	Yes	N	J	N/A	N/A	N	2.2	mg/kg	mg/kg	1.5	2.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7782-49-2	Selenium	ND	TRG	Yes	Y	J	N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-28-0	Thallium	ND	TRG	Yes	Y	J	N/A	N/A	N	2.2	mg/kg	mg/kg	0.99	2.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-62-2	Vanadium	69	TRG	Yes	Y	J	N/A	N/A	N	2.2	mg/kg	mg/kg	0.81	2.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/05/2011 17:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7440-66-6	Zinc	10	TRG	Yes	Y	J	N/A	N/A	N	2.2	mg/kg	mg/kg	0.79	2.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	10/04/2011 13:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	7439-97-6	Mercury	ND	TRG	Yes	N	J	N/A	N/A	N	0.057	mg/kg	mg/kg		0.057	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36		% Gravel & Larger >2.0 mm	37	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36		% Coarse Sand >0.42 - 2.0 mm	9.5	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36		% Very Fine Sand >.0625 - .125 mm	4.1	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36		% Very Coarse Sand >1 - 2 mm	15	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36		% Silt	9.9	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36		% Medium Sand >.25 - .5 mm	6.3	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36		% Fine Sand >.125 - .25 mm	3.9	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	ASTM D422-63 / BIO 8.3	10/17/2011 15:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36		% Clay & Colloids	14	TRG	Yes	N		N/A	N/A	N	0.10	% by Weight	% by Weight		0.10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD17	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 415.1mod / SOP C-88	10/28/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-36	10-19-5	Organic Carbon, Total	82000	TRG	Yes	N	J	N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-22-4	Silver	ND	TRG	Yes	Y	J	N/A	N/A	N	1.2	mg/kg	mg/kg	0.44	1.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7429-90-5	Aluminum	34000	TRG	Yes	N	J	N/A	N/A	N	25	mg/kg	mg/kg	8.9	25	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-38-2	Arsenic	13	TRG	Yes	Y	J	N/A	N/A	N	2.0	mg/kg	mg/kg	0.89	2.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-39-3	Barium	46	TRG	Yes	N	J	N/A	N/A	N	25	mg/kg	mg/kg	9.1	25	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-41-7	Beryllium	ND	TRG	Yes	N	J	N/A	N/A	N	0.74	mg/kg	mg/kg	0.44	0.74	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-70-2	Calcium	59000	TRG	Yes	Y	J	N/A	N/A	N	120	mg/kg	mg/kg	59	120	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-43-9	Cadmium	ND	TRG	Yes	Y	J	N/A	N/A	N	0.74	mg/kg	mg/kg	0.44	0.74	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-48-4	Cobalt	7.0	TRG	Yes	Y	J	N/A	N/A	N	4.9	mg/kg	mg/kg	1.8	4.9	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-47-3	Chromium	140	TRG	Yes	Y	J	N/A	N/A	N	1.2	mg/kg	mg/kg	0.89	1.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-50-8	Copper	45	TRG	Yes	Y	J	N/A	N/A	N	4.9	mg/kg	mg/kg	1.4	4.9	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7439-89-6	Iron	50000	TRG	Yes	Y	J	N/A	N/A	N	12	mg/kg	mg/kg	3.9	12	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7439-95-4	Magnesium	14000	TRG	Yes	Y	J	N/A	N/A	N	42	mg/kg	mg/kg	42	120	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7439-96-5	Manganese	470	TRG	Yes	Y	J	N/A	N/A	N	1.2	mg/kg	mg/kg	0.91	1.2	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-23-5	Sodium	48000	TRG	Yes	N	J	N/A	N/A	N	250	mg/kg	mg/kg	84	250	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-02-0	Nickel	11	TRG	Yes	Y	J	N/A	N/A	N	4.9	mg/kg	mg/kg	1.9	4.9	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7439-92-1	Lead	18	TRG	Yes	Y	J	N/A	N/A	N	2.0	mg/kg	mg/kg	1.0	2.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-36-0	Antimony	ND	TRG	Yes	Y	J	N/A	N/A	N	4.9	mg/kg	mg/kg	3.4	4.9	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7782-49-2	Selenium	ND	TRG	Yes	Y	J	N/A	N/A	N	4.9	mg/kg	mg/kg	3.0	4.9	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-28-0	Thallium	ND	TRG	Yes	Y	J	N/A	N/A	N	4.9	mg/kg	mg/kg	2.3	4.9	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109055-37	7440-62-2	Vanadium	210	TRG	Yes	Y	J	N/A	N/A	N	4.9	mg/kg	mg/kg	1.8	4.9	N/A	St. Croix Alumina - 1109036
DESA	MAN-SD20	N/A	N/A	Solid	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:00	T	INITIAL	Solid	LB	D

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7429-90-5	Aluminum	2500	TRG	Yes	N		N/A	N/A	N	100					N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7439-89-6	Iron	1700	TRG	Yes	Y		N/A	N/A	N	50					N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-38-2	Arsenic	150	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-70-2	Calcium	14000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-50-8	Copper	ND	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-09-7	Potassium	130000	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7439-95-4	Magnesium	48000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7439-96-5	Manganese	37	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109055-42	7440-23-5	Sodium	4200000	TRG	Yes	Y		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-62-2	Vanadium	190	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 18:45	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-42	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW48	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 18:15	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-42	16887-00-6	Chloride	4200	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7429-90-5	Aluminum	150	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7439-89-6	Iron	ND	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-38-2	Arsenic	160	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-70-2	Calcium	8700	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-09-7	Potassium	130000	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7439-95-4	Magnesium	44000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7439-96-5	Manganese	ND	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109055-43	7440-23-5	Sodium	4200000	TRG	Yes	Y		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-62-2	Vanadium	130	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:00	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-43	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	ADP-SW50	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 18:44	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-43	16887-00-6	Chloride	12000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7429-90-5	Aluminum	100	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7439-89-6	Iron	ND	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-38-2	Arsenic	20	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-70-2	Calcium	270000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-09-7	Potassium	390000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7439-95-4	Magnesium	1100000	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7439-96-5	Manganese	25	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109055-47	7440-23-5	Sodium	8200000	TRG	Yes	N		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-62-2	Vanadium	140	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:02	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-47	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW28	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 18:51	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-47	16887-00-6	Chloride	13000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7429-90-5	Aluminum	630	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7439-89-6	Iron	120	TRG	Yes	N		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-38-2	Arsenic	20	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-70-2	Calcium	270000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-47-3	Chromium	ND	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-09-7	Potassium	410000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7439-95-4	Magnesium	1100000	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7439-96-5	Manganese	23	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109055-48	7440-23-5	Sodium	8600000	TRG	Yes	N		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-62-2	Vanadium	130	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:08	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-48	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW29	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 18:58	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-48	16887-00-6	Chloride	13000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7429-90-5	Aluminum	5900	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7439-89-6	Iron	2600	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-38-2	Arsenic	220	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-70-2	Calcium	24000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-47-3	Chromium	43	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-09-7	Potassium	97000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7439-95-4	Magnesium	19000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7439-96-5	Manganese	44	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109055-49	7440-23-5	Sodium	3800000	TRG	Yes	Y		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-62-2	Vanadium	2200	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-49	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW30	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 19:05	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-49	16887-00-6	Chloride	3000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7429-90-5	Aluminum	8000	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7439-89-6	Iron	2000	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-38-2	Arsenic	27	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-70-2	Calcium	290000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-47-3	Chromium	130	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-50-8	Copper	12	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-09-7	Potassium	380000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7439-95-4	Magnesium	1000000	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7439-96-5	Manganese	310	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109055-50	7440-23-5	Sodium	7900000	TRG	Yes	N		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-62-2	Vanadium	310	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 18:54	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7440-66-6	Zinc	41	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:15	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-50	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW31	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 19:28	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-51	16887-00-6	Chloride	12000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW33	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-52	7429-90-5	Aluminum	14000	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	LCP-SW33	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-52	7439-89-6	Iron	6900	TRG	Yes	Y		N/

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	MAN-SW17	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-53	7440-62-2	Vanadium	31	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW17	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-53	7440-66-6	Zinc	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW17	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:19	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-53	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW17	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 20:01	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-53	16887-00-6	Chloride	18000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7429-90-5	Aluminum	24000	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7439-89-6	Iron	28000	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-38-2	Arsenic	28	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-39-3	Barium	110	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-70-2	Calcium	430000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-47-3	Chromium	71	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-50-8	Copper	52	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-09-7	Potassium	470000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7439-95-4	Magnesium	1300000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7439-96-5	Manganese	1900	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109055-54	7440-23-5	Sodium	9700000	TRG	Yes	N		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7439-92-1	Lead	16	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-62-2	Vanadium	110	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7440-66-6	Zinc	79	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:21	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-54	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW20	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 20:08	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-54	16887-00-6	Chloride	16000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7429-90-5	Aluminum	ND	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7439-89-6	Iron	150	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-38-2	Arsenic	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-70-2	Calcium	370000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-09-7	Potassium	500000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	150	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7439-95-4	Magnesium	1300000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7439-96-5	Manganese	4900	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	50	QUANT	1109055-55	7440-23-5	Sodium	10000000	TRG	Yes	N		N/A	N/A	N	50000	ug/L	ug/L	14000	50000	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-62-2	Vanadium	190	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/24/2011 19:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:34	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-55	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	MAN-SW21	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 20:43	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-55	16887-00-6	Chloride	4400	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7439-89-6	Iron	52000	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7429-90-5	Aluminum	94000	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-38-2	Arsenic	36	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-70-2	Calcium	10000	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-47-3	Chromium	1500	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-50-8	Copper	15	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-09-7	Potassium	11000	TRG	Yes	N		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7439-95-4	Magnesium	1700	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7439-96-5	Manganese	45	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-23-5	Sodium	640000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	270	1000	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7439-92-1	Lead	11	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW39	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 15:48	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-56	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW39	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 15:48	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109055-56	7439-95-4	Magnesium	1400000	TRG	Yes	Y		N/A	N/A	N	13000	ug/L	ug/L	3500	13000	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW39	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 15:48	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-56	7439-96-5	Manganese	19	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW39	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/03/2011 15:06	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109055-56	7440-23-5	Sodium	11000000	TRG	Yes	Y		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW39	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 15:48	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-56	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW39	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 15:48	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7782-49-2	Selenium	55	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-62-2	Vanadium	1700	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:14	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7440-66-6	Zinc	25	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-59	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	RMS-SW45	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/23/2011 09:22	T	INITIAL	Aqueous	LB	NA	10	QUANT	1109055-59	16887-00-6	Chloride	280	TRG	Yes	Y		N/A	N/A	N	10	mg/L	mg/L	0.50	10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7429-90-5	Aluminum	670	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7439-89-6	Iron	680	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-38-2	Arsenic	10	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-70-2	Calcium	320000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-47-3	Chromium	170	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-09-7	Potassium	480000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7439-95-4	Magnesium	1100000	TRG	Yes	Y		N/A	N/A	N	13000	ug/L	ug/L	3500	13000	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7439-96-5	Manganese	5.8	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/03/2011 15:37	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109055-60	7440-23-5	Sodium	9300000	TRG	Yes	Y		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-62-2	Vanadium	190	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:36	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-60	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW34	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 20:56	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-60	16887-00-6	Chloride	15000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7429-90-5	Aluminum	21000	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7439-89-6	Iron	20000	TRG	Yes	N		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-38-2	Arsenic	23	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-70-2	Calcium	320000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-47-3	Chromium	410	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-50-8	Copper	11	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-09-7	Potassium	460000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109055-61	7439-95-4	Magnesium	1100000	TRG	Yes	Y		N/A	N/A	N	13000	ug/L	ug/L	3500	13000	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7439-96-5	Manganese	73	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/03/2011 15:51	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109055-61	7440-23-5	Sodium	9100000	TRG	Yes	Y		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-62-2	Vanadium	370	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:38	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 09:29	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-61	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW35	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/23/2011 09:29	T	INITIAL	Aqueous	LB	NA	250	QUANT	1109055-61	16887-00-6	Chloride	14000	TRG	Yes	Y		N/A	N/A	N	250	mg/L	mg/L	12	250	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7429-90-5	Aluminum	4000	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7439-89-6	Iron	7200	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-38-2	Arsenic	12	TRG	Yes	N	J	N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-70-2	Calcium	300000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-47-3	Chromium	780	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-50-8	Copper	ND	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-09-7	Potassium	520000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109055-62	7439-95-4	Magnesium	1200000	TRG	Yes	Y		N/A	N/A	N	13000	ug/L	ug/L	3500	13000	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7439-96-5	Manganese	11	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/03/2011 15:56	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109055-62	7440-23-5	Sodium	10000000	TRG	Yes	Y		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7782-49-2	Selenium	37	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-62-2	Vanadium	260	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:44	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:42	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-62	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	UCP-SW37	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 21:08	T	INITIAL	Aqueous	LB	NA	1000	QUANT

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	WES-SW23	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:59	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-65	7439-92-1	Lead	ND	TRG	Yes	N	N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	WES-SW23	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:59	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-65	7440-36-0	Antimony	ND	TRG	Yes	Y	N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	WES-SW23	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:59	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-65	7782-49-2	Selenium	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	WES-SW23	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:59	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-65	7440-28-0	Thallium	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	WES-SW23	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:59	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-65	7440-62-2	Vanadium	ND	TRG	Yes	Y	N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	WES-SW23	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 16:59	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-65	7440-66-6	Zinc	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	WES-SW23	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:49	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-65	7439-97-6	Mercury	ND	TRG	Yes	Y	N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 21:28	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-65	16887-00-6	Chloride	11000	TRG	Yes	Y	N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7429-90-5	Aluminum	1200	TRG	Yes	N	N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7439-89-6	Iron	1800	TRG	Yes	Y	N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-22-4	Silver	ND	TRG	Yes	N	N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-38-2	Arsenic	ND	TRG	Yes	N	N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-39-3	Barium	110	TRG	Yes	N	N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-41-7	Beryllium	ND	TRG	Yes	N	N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-70-2	Calcium	230000	TRG	Yes	Y	N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-43-9	Cadmium	ND	TRG	Yes	N	N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-48-4	Cobalt	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-47-3	Chromium	ND	TRG	Yes	Y	N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-50-8	Copper	ND	TRG	Yes	Y	N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-09-7	Potassium	290000	TRG	Yes	Y	N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7439-95-4	Magnesium	680000	TRG	Yes	Y	N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7439-96-5	Manganese	1400	TRG	Yes	N	N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	10/03/2011 16:16	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109055-66	7440-23-5	Sodium	5800000	TRG	Yes	N	N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-02-0	Nickel	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7439-92-1	Lead	ND	TRG	Yes	N	N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-36-0	Antimony	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7782-49-2	Selenium	ND	TRG	Yes	Y	N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-28-0	Thallium	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-62-2	Vanadium	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:04	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7440-66-6	Zinc	ND	TRG	Yes	N	N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 245.1 / SOP C-110	09/21/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109055-66	7439-97-6	Mercury	ND	TRG	Yes	Y	N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	WES-SW24	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/14/2011				N	EPA 300.0/ SOP C-94	09/22/2011 21:35	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109055-66	16887-00-6	Chloride	9400	TRG	Yes	Y	N/A	N/A	N	500	mg/L	mg/L	25	500	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-22-4	Silver	ND	TRG	Yes	Y	N/A	N/A	N	0.58	mg/kg	mg/kg	0.21	0.58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7429-90-5	Aluminum	86000	TRG	Yes	Y	N/A	N/A	N	12	mg/kg	mg/kg	4.2	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-38-2	Arsenic	8.8	TRG	Yes	Y	N/A	N/A	N	0.93	mg/kg	mg/kg	0.42	0.93	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-39-3	Barium	76	TRG	Yes	Y	N/A	N/A	N	12	mg/kg	mg/kg	4.3	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-41-7	Beryllium	ND	TRG	Yes	Y	N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-70-2	Calcium	8800	TRG	Yes	Y	N/A	N/A	N	58	mg/kg	mg/kg	28	58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-43-9	Cadmium	0.67	TRG	Yes	Y	N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-48-4	Cobalt	ND	TRG	Yes	Y	N/A	N/A	N	2.3	mg/kg	mg/kg	0.86	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-47-3	Chromium	430	TRG	Yes	Y	N/A	N/A	N	0.58	mg/kg	mg/kg	0.42	0.58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-50-8	Copper	10	TRG	Yes	Y	N/A	N/A	N	2.3	mg/kg	mg/kg	0.65	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	10	QUANT	1109056-01	7439-89-6	Iron	210000	TRG	Yes	Y	N/A	N/A	N	58	mg/kg	mg/kg	19	58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-09-7	Potassium	600	TRG	Yes	Y	N/A	N/A	N	58	mg/kg	mg/kg	22	58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7439-95-4	Magnesium	1710	TRG	Yes	Y	N/A	N/A	N	58	mg/kg	mg/kg	20	58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7439-96-5	Manganese	31	TRG	Yes	Y	N/A	N/A	N	0.58	mg/kg	mg/kg	0.43	0.58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-23-5	Sodium	56000	TRG	Yes	Y	N/A	N/A	N	120	mg/kg	mg/kg	40	120	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-02-0	Nickel	11	TRG	Yes	Y	N/A	N/A	N	2.3	mg/kg	mg/kg	0.89	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7439-92-1	Lead	31	TRG	Yes	Y	N/A	N/A	N	0.93	mg/kg	mg/kg	0.49	0.93	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-36-0	Antimony	ND	TRG	Yes	N	N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7782-49-2	Selenium	ND	TRG	Yes	Y	N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-28-0	Thallium	ND	TRG	Yes	Y	N/A	N/A	N	2.3	mg/kg	mg/kg	1.1	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-62-2	Vanadium	660	TRG	Yes	Y	N/A	N/A	N	2.3	mg/kg	mg/kg	0.88	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7440-66-6	Zinc	10	TRG	Yes	Y	N/A	N/A	N	2.3	mg/kg	mg/kg	0.85	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/04/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-01	7439-97-6	Mercury	0.308	TRG	Yes	N	N/A	N/A	N	0.059	mg/kg	mg/kg		0.059	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-22-4	Silver	ND	TRG	Yes	Y	N/A	N/A	N	0.59	mg/kg	mg/kg	0.21	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7429-90-5	Aluminum	85000	TRG	Yes	Y	N/A	N/A	N	12	mg/kg	mg/kg	4.3	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-38-2	Arsenic	9.7	TRG	Yes	Y	N/A	N/A	N	0.94	mg/kg	mg/kg	0.42	0.94	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-39-3	Barium	76	TRG	Yes	Y	N/A	N/A	N	12	mg/kg	mg/kg	4.4	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-41-7	Beryllium	0.42	TRG	Yes	Y	N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-70-2	Calcium	11000	TRG	Yes	Y	N/A	N/A	N	59	mg/kg	mg/kg	28	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-43-9	Cadmium	0.69	TRG	Yes	Y	N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-48-4	Cobalt	ND	TRG	Yes	Y	N/A	N/A	N	2.4	mg/kg	mg/kg	0.87	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-47-3	Chromium	500	TRG	Yes	Y	N/A	N/A	N	0.59	mg/kg	mg/kg	0.42	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-50-8	Copper	12	TRG	Yes	Y	N/A	N/A	N	2.4	mg/kg	mg/kg	0.66	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	10	QUANT	1109056-02	7439-89-6	Iron	210000	TRG	Yes	Y	N/A	N/A	N	59	mg/kg	mg/kg	19	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-09-7	Potassium	540	TRG	Yes	Y	N/A	N/A	N	59	mg/kg	mg/kg	22	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7439-95-4	Magnesium	640	TRG	Yes	Y	N/A	N/A	N	59	mg/kg	mg/kg	20	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7439-96-5	Manganese	54	TRG	Yes	Y	N/A	N/A	N	0.59	mg/kg	mg/kg	0.44	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-23-5	Sodium	50000	TRG	Yes	Y	N/A	N/A	N	120	mg/kg	mg/kg	40	120	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-02-0	Nickel	11	TRG	Yes	Y	N/A	N/A	N	2.4	mg/kg	mg/kg	0.89	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7439-92-1	Lead	37	TRG	Yes	Y	N/A	N/A	N	0.94	mg/kg	mg/kg	0.49	0.94	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-36-0	Antimony	ND	TRG	Yes	Y	N/A	N/A	N	2.4	mg/kg	mg/kg	1.6	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7782-49-2	Selenium	580	TRG	Yes	Y	N/A	N/A	N	2.4	mg/kg	mg/kg	0.88	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7440-66-6	Zinc	13	TRG	Yes	Y	N/A	N/A	N	2.4	mg/kg	mg/kg	0.86	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/04/2011 13:57	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-02	7439-97-6	Mercury	0.245	TRG	Yes	N	N/A	N/A	N	0.049

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	RMA-WST05B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-05	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	2.5	mg/kg	mg/kg	1.5	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST05B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-05	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	1.1	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST05B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-05	7440-62-2	Vanadium	620	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.92	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST05B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 14:58	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-05	7440-66-6	Zinc	7.6	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.90	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST05B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/04/2011 14:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-05	7439-97-6	Mercury	0.328	TRG	Yes	N		N/A	N/A	N	0.052	mg/kg	mg/kg	0.052	N/A	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.20	0.55	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7429-90-5	Aluminum	61000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.0	11	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-38-2	Arsenic	15	TRG	Yes	Y		N/A	N/A	N	0.89	mg/kg	mg/kg	0.40	0.89	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-39-3	Barium	78	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.33	mg/kg	mg/kg	0.20	0.33	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-70-2	Calcium	16000	TRG	Yes	N		N/A	N/A	N	55	mg/kg	mg/kg	27	55	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-43-9	Cadmium	0.58	TRG	Yes	Y	J	N/A	N/A	N	0.33	mg/kg	mg/kg	0.20	0.33	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.82	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-47-3	Chromium	910	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.40	0.55	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-50-8	Copper	10	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.62	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	10	QUANT	1109056-06	7439-89-6	Iron	200000	TRG	Yes	Y		N/A	N/A	N	55	mg/kg	mg/kg	18	55	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-09-7	Potassium	560	TRG	Yes	Y		N/A	N/A	N	55	mg/kg	mg/kg	21	55	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7439-95-4	Magnesium	800	TRG	Yes	Y		N/A	N/A	N	55	mg/kg	mg/kg	19	55	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7439-96-5	Manganese	65	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.41	0.55	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-23-5	Sodium	28000	TRG	Yes	N		N/A	N/A	N	110	mg/kg	mg/kg	38	110	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-02-0	Nickel	9.8	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.84	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7439-92-1	Lead	68	TRG	Yes	Y		N/A	N/A	N	0.89	mg/kg	mg/kg	0.47	0.89	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.6	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.0	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-62-2	Vanadium	750	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.83	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:03	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7440-66-6	Zinc	11	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.81	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST06B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/04/2011 14:05	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-06	7439-97-6	Mercury	0.201	TRG	Yes	N		N/A	N/A	N	0.048	mg/kg	mg/kg	0.048	N/A	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.50	mg/kg	mg/kg	0.18	0.50	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7429-90-5	Aluminum	74000	TRG	Yes	Y		N/A	N/A	N	10	mg/kg	mg/kg	3.6	10	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-38-2	Arsenic	11	TRG	Yes	Y		N/A	N/A	N	0.80	mg/kg	mg/kg	0.36	0.80	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-39-3	Barium	49	TRG	Yes	Y		N/A	N/A	N	10	mg/kg	mg/kg	3.7	10	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.30	mg/kg	mg/kg	0.18	0.30	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-70-2	Calcium	6800	TRG	Yes	Y		N/A	N/A	N	50	mg/kg	mg/kg	24	50	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-43-9	Cadmium	1.7	TRG	Yes	Y		N/A	N/A	N	0.30	mg/kg	mg/kg	0.18	0.30	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.74	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-47-3	Chromium	640	TRG	Yes	Y		N/A	N/A	N	0.50	mg/kg	mg/kg	0.36	0.50	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-50-8	Copper	4.4	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.56	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	10	QUANT	1109056-07	7439-89-6	Iron	250000	TRG	Yes	Y		N/A	N/A	N	50	mg/kg	mg/kg	16	50	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-09-7	Potassium	450	TRG	Yes	Y		N/A	N/A	N	50	mg/kg	mg/kg	19	50	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7439-95-4	Magnesium	1400	TRG	Yes	N		N/A	N/A	N	50	mg/kg	mg/kg	17	50	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7439-96-5	Manganese	110	TRG	Yes	Y		N/A	N/A	N	0.50	mg/kg	mg/kg	0.37	0.50	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-23-5	Sodium	41000	TRG	Yes	Y		N/A	N/A	N	100	mg/kg	mg/kg	34	100	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-02-0	Nickel	11	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.76	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7439-92-1	Lead	47	TRG	Yes	Y		N/A	N/A	N	0.80	mg/kg	mg/kg	0.42	0.80	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	1.4	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	1.2	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	2.0	mg/kg	mg/kg	0.92	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-62-2	Vanadium	790	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.75	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7440-66-6	Zinc	7.7	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.73	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST12B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/04/2011 14:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-07	7439-97-6	Mercury	0.222	TRG	Yes	Y		N/A	N/A	N	0.043	mg/kg	mg/kg		0.043	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.60	mg/kg	mg/kg	0.22	0.60	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7429-90-5	Aluminum	86000	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.4	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-38-2	Arsenic	12	TRG	Yes	Y		N/A	N/A	N	0.96	mg/kg	mg/kg	0.43	0.96	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-39-3	Barium	68	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.4	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.36	mg/kg	mg/kg	0.22	0.36	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-70-2	Calcium	7800	TRG	Yes	Y		N/A	N/A	N	60	mg/kg	mg/kg	29	60	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-43-9	Cadmium	0.63	TRG	Yes	Y		N/A	N/A	N	0.36	mg/kg	mg/kg	0.22	0.36	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.89	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-47-3	Chromium	540	TRG	Yes	Y		N/A	N/A	N	0.60	mg/kg	mg/kg	0.43	0.60	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-50-8	Copper	6.6	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.67	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	10	QUANT	1109056-08	7439-89-6	Iron	230000	TRG	Yes	Y		N/A	N/A	N	60	mg/kg	mg/kg	19	60	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-09-7	Potassium	400	TRG	Yes	Y		N/A	N/A	N	60	mg/kg	mg/kg	23	60	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7439-95-4	Magnesium	450	TRG	Yes	Y		N/A	N/A	N	60	mg/kg	mg/kg	20	60	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7439-96-5	Manganese	16	TRG	Yes	Y		N/A	N/A	N	0.60	mg/kg	mg/kg	0.44	0.60	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7439-92-1	Lead	38	TRG	Yes	Y		N/A	N/A	N	0.96	mg/kg	mg/kg	0.50	0.96	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-02-0	Nickel	2.4	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.91	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-66-6	Zinc	2.4	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.7	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.1	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.4	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	2.4	mg/kg	mg/kg	1.1	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-62-2	Vanadium	790	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.90	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7440-66-6	Zinc	6.3	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.88	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/04/2011 14:09	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-08	7439-97-6	Mercury	0.367	TRG	Yes	N		N/A	N/A	N	0.048	mg/kg	mg/kg		0.048	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-09	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.44	mg/kg	mg/kg	0.

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	RMA-WST07B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/04/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-11	7439-97-6	Mercury	0.076	TRG	Yes	N		N/A	N/A	N	0.053	mg/kg	mg/kg		0.053	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.21	0.57	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7429-90-5	Aluminum	81000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-38-2	Arsenic	13	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.41	0.91	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-39-3	Barium	110	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.2	11	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.21	0.34	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-70-2	Calcium	5300	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	27	57	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-43-9	Cadmium	0.90	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.21	0.34	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.84	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-47-3	Chromium	520	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.41	0.57	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-50-8	Copper	9.4	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.64	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	10	QUANT	1109056-12	7439-89-6	Iron	210000	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	18	57	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-09-7	Potassium	1300	TRG	Yes	N		N/A	N/A	N	57	mg/kg	mg/kg	22	57	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7439-95-4	Magnesium	650	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	19	57	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7439-96-5	Manganese	26	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.42	0.57	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-23-5	Sodium	76000	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	39	110	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-02-0	Nickel	10	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.87	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7439-92-1	Lead	28	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.48	0.91	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7782-49-2	Selenium	4.7	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.0	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-62-2	Vanadium	920	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.85	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7440-66-6	Zinc	12	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.83	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/04/2011 14:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-12	7439-97-6	Mercury	0.171	TRG	Yes	N		N/A	N/A	N	0.046	mg/kg	mg/kg	0.046		N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.62	mg/kg	mg/kg	0.22	0.62	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	10	QUANT	1109056-13	7429-90-5	Aluminum	100000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	45	120	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-38-2	Arsenic	11	TRG	Yes	Y		N/A	N/A	N	0.99	mg/kg	mg/kg	0.44	0.99	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-39-3	Barium	150	TRG	Yes	N		N/A	N/A	N	12	mg/kg	mg/kg	4.6	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.37	mg/kg	mg/kg	0.22	0.37	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-70-2	Calcium	8300	TRG	Yes	Y		N/A	N/A	N	62	mg/kg	mg/kg	30	62	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-43-9	Cadmium	0.99	TRG	Yes	Y		N/A	N/A	N	0.37	mg/kg	mg/kg	0.22	0.37	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.91	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-47-3	Chromium	490	TRG	Yes	Y		N/A	N/A	N	0.62	mg/kg	mg/kg	0.44	0.62	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-50-8	Copper	12	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.69	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	10	QUANT	1109056-13	7439-89-6	Iron	200000	TRG	Yes	Y		N/A	N/A	N	62	mg/kg	mg/kg	20	62	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-09-7	Potassium	780	TRG	Yes	Y		N/A	N/A	N	62	mg/kg	mg/kg	23	62	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7439-95-4	Magnesium	710	TRG	Yes	Y		N/A	N/A	N	62	mg/kg	mg/kg	21	62	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7439-96-5	Manganese	33	TRG	Yes	Y		N/A	N/A	N	0.62	mg/kg	mg/kg	0.46	0.62	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-23-5	Sodium	60000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	42	120	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-02-0	Nickel	13	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.94	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7439-92-1	Lead	39	TRG	Yes	Y		N/A	N/A	N	0.99	mg/kg	mg/kg	0.52	0.99	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	1.7	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	2.5	mg/kg	mg/kg	1.5	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	1.1	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-62-2	Vanadium	710	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.93	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7440-66-6	Zinc	21	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.90	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/04/2011 14:24	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-13	7439-97-6	Mercury	0.164	TRG	Yes	N		N/A	N/A	N	0.049	mg/kg	mg/kg	0.049		N/A	St. Croix Alumina - 1109036
DESA	RMA-WST08B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 15:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-22-4	Silver	0.58	TRG	Yes	Y		N/A	N/A	N	0.54	mg/kg	mg/kg	0.20	0.54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7429-90-5	Aluminum	76000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	3.9	11	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-38-2	Arsenic	9.5	TRG	Yes	Y		N/A	N/A	N	0.87	mg/kg	mg/kg	0.39	0.87	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-39-3	Barium	62	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.0	11	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.33	mg/kg	mg/kg	0.20	0.33	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-70-2	Calcium	6100	TRG	Yes	Y		N/A	N/A	N	54	mg/kg	mg/kg	26	54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-43-9	Cadmium	0.50	TRG	Yes	Y		N/A	N/A	N	0.33	mg/kg	mg/kg	0.20	0.33	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.80	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-47-3	Chromium	280	TRG	Yes	Y		N/A	N/A	N	0.54	mg/kg	mg/kg	0.39	0.54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-50-8	Copper	4.0	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.61	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	10	QUANT	1109056-14	7439-89-6	Iron	210000	TRG	Yes	Y		N/A	N/A	N	54	mg/kg	mg/kg	17	54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-09-7	Potassium	480	TRG	Yes	Y		N/A	N/A	N	54	mg/kg	mg/kg	21	54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7439-95-4	Magnesium	650	TRG	Yes	Y		N/A	N/A	N	54	mg/kg	mg/kg	18	54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7439-96-5	Manganese	24	TRG	Yes	Y		N/A	N/A	N	0.54	mg/kg	mg/kg	0.40	0.54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-23-5	Sodium	63000	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	37	110	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-02-0	Nickel	7.5	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.82	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7439-92-1	Lead	22	TRG	Yes	Y		N/A	N/A	N	0.87	mg/kg	mg/kg	0.46	0.87	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-36-0	Antimony	3.1	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.5	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.0	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-62-2	Vanadium	580	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.81	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7440-66-6	Zinc	6.3	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.79	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/04/2011 14:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-14	7439-97-6	Mercury	0.138	TRG	Yes	N		N/A	N/A	N	0.045	mg/kg	mg/kg		0.045	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-15	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.17	0.46	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:06	T	INITIAL	Solid	LB	Dry	10	QUANT	1109056-15	7429-90-5	Aluminum	74000	TRG	Yes	Y		N/A	N/A	N	92	mg/kg	mg/kg	33	92	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-15	7440-38-2	Arsenic	7.6	TRG	Yes	Y		N/A	N/A	N	0.74	mg/kg	mg/kg	0.33	0.74	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-15	7440-39-3	Barium	16	TRG	Yes	N		N/A	N/A	N	9.2	mg/kg	mg/kg	3.4	9.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST10B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/06/2011 16:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109056-15	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.28	mg/kg	mg/kg	0.17	0.28	N/

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	21	mg/kg	mg/kg	7.8	21	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.63	mg/kg	mg/kg	0.38	0.63	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-70-2	Calcium	9600	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	51	110	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-43-9	Cadmium	0.72	TRG	Yes	Y		N/A	N/A	N	0.63	mg/kg	mg/kg	0.38	0.63	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	4.2	mg/kg	mg/kg	1.6	4.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-47-3	Chromium	310	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.76	1.1	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-50-8	Copper	12	TRG	Yes	Y		N/A	N/A	N	2.1	mg/kg	mg/kg	1.2	2.1	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-01	7439-89-6	Iron	380000	TRG	Yes	Y		N/A	N/A	N	260	mg/kg	mg/kg	42	260	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-09-7	Potassium	240	TRG	Yes	N	J	N/A	N/A	N	110	mg/kg	mg/kg	40	110	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7439-95-4	Magnesium	2500	TRG	Yes	N		N/A	N/A	N	110	mg/kg	mg/kg	36	110	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7439-96-5	Manganese	430	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.78	1.1	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-23-5	Sodium	4400	TRG	Yes	N		N/A	N/A	N	210	mg/kg	mg/kg	72	210	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-02-0	Nickel	9.3	TRG	Yes	Y	J	N/A	N/A	N	4.2	mg/kg	mg/kg	1.6	4.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7439-92-1	Lead	39	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.89	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-36-0	Antimony	ND	TRG	Yes	Y	J	N/A	N/A	N	4.2	mg/kg	mg/kg	3.0	4.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	4.2	mg/kg	mg/kg	2.5	4.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-28-0	Thallium	ND	TRG	Yes	Y	J	N/A	N/A	N	4.2	mg/kg	mg/kg	1.9	4.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-62-2	Vanadium	1100	TRG	Yes	Y		N/A	N/A	N	4.2	mg/kg	mg/kg	1.6	4.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/17/2011 12:35	T	INITIAL	Solid	LB	Dry	2	QUANT	1109061-01	7440-66-6	Zinc	14	TRG	Yes	Y		N/A	N/A	N	4.2	mg/kg	mg/kg	1.5	4.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST01A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/13/2011 14:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-01	7439-97-6	Mercury	0.263	TRG	Yes	N		N/A	N/A	N	0.051	mg/kg	mg/kg		0.051	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-02	7439-89-6	Iron	210000	TRG	Yes	Y		N/A	N/A	N	290	mg/kg	mg/kg	43	290	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-22-4	Silver	0.87	TRG	Yes	Y		N/A	N/A	N	0.58	mg/kg	mg/kg	0.21	0.58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7429-90-5	Aluminum	93000	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.2	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-38-2	Arsenic	6.5	TRG	Yes	Y		N/A	N/A	N	0.92	mg/kg	mg/kg	0.41	0.92	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-39-3	Barium	72	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.3	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-70-2	Calcium	11000	TRG	Yes	Y		N/A	N/A	N	58	mg/kg	mg/kg	28	58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-43-9	Cadmium	0.41	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.85	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-47-3	Chromium	510	TRG	Yes	Y		N/A	N/A	N	0.58	mg/kg	mg/kg	0.41	0.58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-50-8	Copper	14	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.64	1.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-09-7	Potassium	550	TRG	Yes	Y		N/A	N/A	N	58	mg/kg	mg/kg	22	58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7439-95-4	Magnesium	480	TRG	Yes	Y		N/A	N/A	N	58	mg/kg	mg/kg	20	58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7439-96-5	Manganese	27	TRG	Yes	Y		N/A	N/A	N	0.58	mg/kg	mg/kg	0.43	0.58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-23-5	Sodium	64000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	39	120	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-02-0	Nickel	7.6	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.88	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7439-92-1	Lead	29	TRG	Yes	Y		N/A	N/A	N	0.92	mg/kg	mg/kg	0.48	0.92	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7782-49-2	Selenium	2.6	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.1	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-62-2	Vanadium	720	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.86	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7440-66-6	Zinc	8.8	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.84	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST02A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/13/2011 14:18	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-02	7439-97-6	Mercury	0.336	TRG	Yes	N		N/A	N/A	N	0.058	mg/kg	mg/kg		0.058	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-03	7439-89-6	Iron	190000	TRG	Yes	Y		N/A	N/A	N	310	mg/kg	mg/kg	47	310	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-22-4	Silver	1.1	TRG	Yes	Y		N/A	N/A	N	0.63	mg/kg	mg/kg	0.23	0.63	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7429-90-5	Aluminum	86000	TRG	Yes	Y		N/A	N/A	N	13	mg/kg	mg/kg	4.6	13	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-38-2	Arsenic	5.8	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.45	1.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-39-3	Barium	64	TRG	Yes	Y		N/A	N/A	N	13	mg/kg	mg/kg	4.7	13	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.38	mg/kg	mg/kg	0.23	0.38	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-70-2	Calcium	14000	TRG	Yes	N		N/A	N/A	N	63	mg/kg	mg/kg	30	63	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.38	mg/kg	mg/kg	0.23	0.38	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.93	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-47-3	Chromium	670	TRG	Yes	Y		N/A	N/A	N	0.63	mg/kg	mg/kg	0.45	0.63	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-50-8	Copper	14	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.70	1.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-09-7	Potassium	800	TRG	Yes	Y		N/A	N/A	N	63	mg/kg	mg/kg	24	63	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7439-95-4	Magnesium	700	TRG	Yes	Y		N/A	N/A	N	63	mg/kg	mg/kg	21	63	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7439-96-5	Manganese	41	TRG	Yes	Y		N/A	N/A	N	0.63	mg/kg	mg/kg	0.47	0.63	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-23-5	Sodium	65000	TRG	Yes	Y		N/A	N/A	N	130	mg/kg	mg/kg	43	130	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-02-0	Nickel	7.1	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.96	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7439-92-1	Lead	34	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.53	1.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	1.8	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7782-49-2	Selenium	4.6	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	1.5	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	1.2	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-62-2	Vanadium	560	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.94	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:14	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7440-66-6	Zinc	6.0	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.92	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST03A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/13/2011 14:20	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-03	7439-97-6	Mercury	0.189	TRG	Yes	Y		N/A	N/A	N	0.058	mg/kg	mg/kg		0.058	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST04A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:19	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-04	7429-90-5	Aluminum	100000	TRG	Yes	Y		N/A	N/A	N	300	mg/kg	mg/kg	67	300	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST04A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-04	7440-22-4	Silver	1.4	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.21	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST04A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-04	7440-38-2	Arsenic	7.1	TRG	Yes	Y		N/A	N/A	N	0.95	mg/kg	mg/kg	0.43	0.95	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST04A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-04	7440-39-3	Barium	42	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.4	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST04A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-04	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.36	mg/kg	mg/kg	0.21	0.36	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST04A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-04	7440-70-2	Calcium	7800	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	28	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST04A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-04	7440-43-9	Cadmium	0.54	TRG	Yes	Y		N/A	N/A	N	0.36	mg/kg	mg/kg	0.21	0.36	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST04A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-04	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.88	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST04A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:19	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-04	7440-47-3	Chromium	350	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.80	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7440-47-3	Chromium	320	TRG	Yes	Y		N/A	N/A	N	0.54	mg/kg	mg/kg	0.39	0.54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-07	7440-50-8	Copper	13	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.61	1.1	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-07	7439-89-6	Iron	280000	TRG	Yes	Y		N/A	N/A	N	270	mg/kg	mg/kg	43	270	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7440-09-7	Potassium	390	TRG	Yes	Y		N/A	N/A	N	54	mg/kg	mg/kg	21	54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7439-95-4	Magnesium	1100	TRG	Yes	Y		N/A	N/A	N	54	mg/kg	mg/kg	18	54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7439-96-5	Manganese	110	TRG	Yes	Y		N/A	N/A	N	0.54	mg/kg	mg/kg	0.40	0.54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7440-23-5	Sodium	34000	TRG	Yes	N		N/A	N/A	N	110	mg/kg	mg/kg	37	110	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7440-02-0	Nickel	4.3	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.82	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7439-92-1	Lead	32	TRG	Yes	Y		N/A	N/A	N	0.87	mg/kg	mg/kg	0.45	0.87	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.5	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7782-49-2	Selenium	2.7	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.0	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7440-62-2	Vanadium	890	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.81	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7440-66-6	Zinc	16	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.79	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/13/2011 14:32	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-07	7439-97-6	Mercury	0.229	TRG	Yes	N		N/A	N/A	N	0.052	mg/kg	mg/kg			0.052	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-08	7439-89-6	Iron	180000	TRG	Yes	Y		N/A	N/A	N	320			49	320	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-22-4	Silver	1.1	TRG	Yes	Y		N/A	N/A	N	0.65	mg/kg	mg/kg	0.23	0.65	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7429-90-5	Aluminum	89000	TRG	Yes	Y		N/A	N/A	N	13	mg/kg	mg/kg	4.7	13	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-38-2	Arsenic	3.3	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.47	1.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-39-3	Barium	69	TRG	Yes	Y		N/A	N/A	N	13	mg/kg	mg/kg	4.8	13	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.39	mg/kg	mg/kg	0.23	0.39	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-70-2	Calcium	11000	TRG	Yes	Y		N/A	N/A	N	65	mg/kg	mg/kg	31	65	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.39	mg/kg	mg/kg	0.23	0.39	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	0.96	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-47-3	Chromium	560	TRG	Yes	Y		N/A	N/A	N	0.65	mg/kg	mg/kg	0.47	0.65	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-50-8	Copper	11	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.73	1.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-09-7	Potassium	310	TRG	Yes	Y		N/A	N/A	N	65	mg/kg	mg/kg	25	65	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7439-95-4	Magnesium	440	TRG	Yes	Y		N/A	N/A	N	22	mg/kg	mg/kg	22	65	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7439-96-5	Manganese	19	TRG	Yes	Y		N/A	N/A	N	0.65	mg/kg	mg/kg	0.48	0.65	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-23-5	Sodium	57000	TRG	Yes	Y		N/A	N/A	N	130	mg/kg	mg/kg	44	130	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-02-0	Nickel	6.6	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	0.98	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7439-92-1	Lead	33	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.54	1.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	1.8	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	1.6	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	1.2	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-62-2	Vanadium	480	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	0.97	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 19:56	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7440-66-6	Zinc	4.6	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	0.95	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST09B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/13/2011 14:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-08	7439-97-6	Mercury	0.290	TRG	Yes	N		N/A	N/A	N	0.044	mg/kg	mg/kg		0.044	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-09	7439-89-6	Iron	200000	TRG	Yes	Y		N/A	N/A	N	290			44	290	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-22-4	Silver	0.76	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.21	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7429-90-5	Aluminum	85000	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.2	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-38-2	Arsenic	5.6	TRG	Yes	Y		N/A	N/A	N	0.94	mg/kg	mg/kg	0.42	0.94	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-39-3	Barium	83	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.3	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-70-2	Calcium	9900	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	28	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.87	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-47-3	Chromium	770	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.42	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-50-8	Copper	14	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.66	1.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-09-7	Potassium	1200	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	22	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7439-95-4	Magnesium	580	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	20	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7439-96-5	Manganese	51	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.43	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-23-5	Sodium	76000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	40	120	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-02-0	Nickel	6.8	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.89	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7439-92-1	Lead	36	TRG	Yes	Y		N/A	N/A	N	0.94	mg/kg	mg/kg	0.49	0.94	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7782-49-2	Selenium	16	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.1	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-62-2	Vanadium	610	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.88	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:01	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7440-66-6	Zinc	5.2	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.85	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/13/2011 14:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-09	7439-97-6	Mercury	0.241	TRG	Yes	N		N/A	N/A	N	0.064	mg/kg	mg/kg		0.064	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-10	7439-89-6	Iron	200000	TRG	Yes	Y		N/A	N/A	N	310			47	310	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-10	7440-22-4	Silver	0.71	TRG	Yes	Y		N/A	N/A	N	0.62	mg/kg	mg/kg	0.22	0.62	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-10	7429-90-5	Aluminum	87000	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.5	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-10	7440-38-2	Arsenic	5.3	TRG	Yes	Y		N/A	N/A	N	0.99	mg/kg	mg/kg	0.45	0.99	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-10	7440-39-3	Barium	86	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.6	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-10	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.37	mg/kg	mg/kg	0.22	0.37	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-10	7440-70-2	Calcium	8900	TRG	Yes	Y		N/A	N/A	N	62	mg/kg	mg/kg	30	62	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-10	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.37	mg/kg	mg/kg	0.22	0.37	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-10	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.92	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-10	7440-47-3	Chromium	490	TRG	Yes	Y		N/A	N/A	N	0.62	mg/kg	mg/kg	0.45	0.62	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-10	7440-50-8	Copper	12	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.69	1.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-10	7440-09-7	Potassium	760	TRG	Yes	Y		N/A	N/A	N	62	mg/kg	mg/kg	24	62	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-10	7439-95-4	Magnesium	1200	TRG	Yes	N		N/A	N/A	N	62	mg/kg	mg/kg	21	62	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST11C

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	RMA-WST13B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-13	7440-09-7	Potassium	230	TRG	Yes	Y		N/A	N/A	N	55	mg/kg	mg/kg	21	55	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST13B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-13	7439-95-4	Magnesium	470	TRG	Yes	Y		N/A	N/A	N	55	mg/kg	mg/kg	19	55	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST13B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-13	7439-96-5	Manganese	60	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.41	0.55	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST13B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-13	7440-23-5	Sodium	25000	TRG	Yes	N		N/A	N/A	N	110	mg/kg	mg/kg	37	110	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST13B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-13	7440-02-0	Nickel	7.1	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.84	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST13B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-13	7439-92-1	Lead	79	TRG	Yes	Y		N/A	N/A	N	0.88	mg/kg	mg/kg	0.46	0.88	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST13B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-13	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.5	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST13B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-13	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST13B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-13	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	2.2	mg/kg	mg/kg	1.0	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST13B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-13	7440-62-2	Vanadium	580	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.83	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST13B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-13	7440-66-6	Zinc	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.80	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST13B	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/13/2011 14:45	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-13	7439-97-6	Mercury	0.180	TRG	Yes	N		N/A	N/A	N	0.057	mg/kg	mg/kg		0.057	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-14	7439-89-6	Iron	190000	TRG	Yes	Y		N/A	N/A	N	290			44	290	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-22-4	Silver	0.74	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.21	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7429-90-5	Aluminum	87000	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.3	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-38-2	Arsenic	3.9	TRG	Yes	Y		N/A	N/A	N	0.94	mg/kg	mg/kg	0.42	0.94	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-39-3	Barium	93	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.3	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-41-7	Beryllium	0.46	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-70-2	Calcium	11000	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	28	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.87	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-47-3	Chromium	680	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.42	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-50-8	Copper	15	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.66	1.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-09-7	Potassium	1000	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	22	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7439-95-4	Magnesium	550	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	20	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7439-96-5	Manganese	27	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.43	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-23-5	Sodium	67000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	40	120	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-02-0	Nickel	8.5	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.89	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7439-92-1	Lead	37	TRG	Yes	Y		N/A	N/A	N	0.94	mg/kg	mg/kg	0.49	0.94	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.1	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-62-2	Vanadium	490	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.88	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:43	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7440-66-6	Zinc	6.7	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.86	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST18A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 245.1 / SOP C-110	10/13/2011 14:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-14	7439-97-6	Mercury	0.373	TRG	Yes	N		N/A	N/A	N	0.057	mg/kg	mg/kg		0.057	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-15	7439-89-6	Iron	220000	TRG	Yes	Y		N/A	N/A	N	300			44	300	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-22-4	Silver	0.76	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.21	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7429-90-5	Aluminum	84000	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.3	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-38-2	Arsenic	6.2	TRG	Yes	Y		N/A	N/A	N	0.95	mg/kg	mg/kg	0.43	0.95	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-39-3	Barium	130	TRG	Yes	N		N/A	N/A	N	12	mg/kg	mg/kg	4.4	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-70-2	Calcium	7200	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	28	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.87	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-47-3	Chromium	670	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.43	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-50-8	Copper	13	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.66	1.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-09-7	Potassium	1300	TRG	Yes	N		N/A	N/A	N	59	mg/kg	mg/kg	22	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7439-95-4	Magnesium	650	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	20	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7439-96-5	Manganese	20	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.44	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-23-5	Sodium	68000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	40	120	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-02-0	Nickel	7.4	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.90	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7439-92-1	Lead	33	TRG	Yes	Y		N/A	N/A	N	0.95	mg/kg	mg/kg	0.50	0.95	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	2.4	mg/kg	mg/kg	1.7	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7782-49-2	Selenium	4.7	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.4	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.1	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-62-2	Vanadium	610	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.89	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7440-66-6	Zinc	13	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.86	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST19A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/13/2011 14:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-15	7439-97-6	Mercury	0.422	TRG	Yes	N		N/A	N/A	N	0.063	mg/kg	mg/kg		0.063	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-16	7439-89-6	Iron	190000	TRG	Yes	Y		N/A	N/A	N	300			44	300	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7440-22-4	Silver	0.60	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.21	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7429-90-5	Aluminum	86000	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.3	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7440-38-2	Arsenic	6.1	TRG	Yes	Y		N/A	N/A	N	0.94	mg/kg	mg/kg	0.43	0.94	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7440-39-3	Barium	85	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.4	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7440-70-2	Calcium	6600	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	28	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.87	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7440-47-3	Chromium	500	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.43	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7440-50-8	Copper	12	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.66	1.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7440-09-7	Potassium	1100	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	22	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7439-95-4	Magnesium	580	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	20	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7439-96-5	Manganese	33	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.44	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	25	QUANT	1109061-16	7440-23-5	Sodium	95000	TRG	Yes	N		N/A	N/A	N	3000	mg/kg	mg/kg	1000	3000	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7440-02-0	Nickel	7.1	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.90	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A	N/A	N/A	Solid	Sample	FIELD	N/A	09/15/2011				N	EPA 200.7 / SOP C-109	10/11/2011 20:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-16	7439-92-1	Lead	29	TRG	Yes	Y		N/A	N/A	N	0.94	mg/kg	mg/kg	0.50	0.94	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST20A

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	UCP-SD38	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-19	7440-23-5	Sodium	60000	TRG	Yes	Y		N/A	N/A	N	130	mg/kg	mg/kg	46	130	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD38	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-19	7440-02-0	Nickel	7.9	TRG	Yes	Y		N/A	N/A	N	2.7	mg/kg	mg/kg	1.0	2.7	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD38	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-19	7439-92-1	Lead	31	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.57	1.1	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD38	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-19	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.7	mg/kg	mg/kg	1.9	2.7	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD38	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-19	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.7	mg/kg	mg/kg	1.6	2.7	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD38	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-19	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.7	mg/kg	mg/kg	1.2	2.7	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD38	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-19	7440-62-2	Vanadium	530	TRG	Yes	Y		N/A	N/A	N	2.7	mg/kg	mg/kg	1.0	2.7	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD38	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-19	7440-66-6	Zinc	29	TRG	Yes	Y		N/A	N/A	N	2.7	mg/kg	mg/kg	0.98	2.7	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD38	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/13/2011 15:02	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-19	7439-97-6	Mercury	0.259	TRG	Yes	N		N/A	N/A	N	0.057	mg/kg	mg/kg		0.057	N/A	St. Croix Alumina - 1109036
DESA	UCP-SD38	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 415.1mod / SOP C-88	10/28/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-19	10-19-5	Organic Carbon, Total	9700	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-22-4	Silver	0.73	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.20	0.57	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7429-90-5	Aluminum	24000	TRG	Yes	N		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-38-2	Arsenic	5.3	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.41	0.91	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-39-3	Barium	260	TRG	Yes	N		N/A	N/A	N	11	mg/kg	mg/kg	4.2	11	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.20	0.34	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	10	QUANT	1109061-20	7440-70-2	Calcium	120000	TRG	Yes	N		N/A	N/A	N	570	mg/kg	mg/kg	270	570	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	0.34	mg/kg	mg/kg	0.20	0.34	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-48-4	Cobalt	27	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.84	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-47-3	Chromium	74	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.41	0.57	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-50-8	Copper	34	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.63	1.1	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7439-89-6	Iron	37000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	1.8	11	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-09-7	Potassium	2900	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	22	57	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7439-95-4	Magnesium	5200	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	19	57	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7439-96-5	Manganese	1800	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.42	0.57	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-23-5	Sodium	1100	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	38	110	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-02-0	Nickel	18	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.86	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7439-92-1	Lead	15	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.48	0.91	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.0	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-62-2	Vanadium	170	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.85	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7440-66-6	Zinc	27	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.83	2.3	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/13/2011 15:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.049	mg/kg	mg/kg		0.049	N/A	St. Croix Alumina - 1109036
DESA	WES-SD25	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 415.1mod / SOP C-88	10/28/2011 16:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109061-20	10-19-5	Organic Carbon, Total	22000	TRG	Yes	N		N/A	N/A	N		mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.61	mg/kg	mg/kg	0.22	0.61	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7429-90-5	Aluminum	8600	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.4	12	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-38-2	Arsenic	35	TRG	Yes	Y		N/A	N/A	N	0.97	mg/kg	mg/kg	0.44	0.97	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-39-3	Barium	540	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.5	12	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-41-7	Beryllium	0.82	TRG	Yes	Y		N/A	N/A	N	0.36	mg/kg	mg/kg	0.22	0.36	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-70-2	Calcium	6200	TRG	Yes	Y		N/A	N/A	N	61	mg/kg	mg/kg	29	61	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-43-9	Cadmium	0.41	TRG	Yes	Y		N/A	N/A	N	0.36	mg/kg	mg/kg	0.22	0.36	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-48-4	Cobalt	4.8	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.90	2.4	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-47-3	Chromium	23	TRG	Yes	Y		N/A	N/A	N	0.61	mg/kg	mg/kg	0.44	0.61	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-50-8	Copper	19	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.68	1.2	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7439-89-6	Iron	27000	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	1.9	12	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-09-7	Potassium	1500	TRG	Yes	N		N/A	N/A	N	61	mg/kg	mg/kg	23	61	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7439-95-4	Magnesium	2900	TRG	Yes	Y		N/A	N/A	N	61	mg/kg	mg/kg	21	61	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7439-96-5	Manganese	190	TRG	Yes	Y		N/A	N/A	N	0.61	mg/kg	mg/kg	0.45	0.61	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-23-5	Sodium	22000	TRG	Yes	N		N/A	N/A	N	120	mg/kg	mg/kg	41	120	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-02-0	Nickel	20	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.92	2.4	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7439-92-1	Lead	3.7	TRG	Yes	Y		N/A	N/A	N	0.97	mg/kg	mg/kg	0.51	0.97	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-36-0	Antimony	4.0	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.7	2.4	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7782-49-2	Selenium	10	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.5	2.4	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.1	2.4	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-62-2	Vanadium	81	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.91	2.4	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 21:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7440-66-6	Zinc	25	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.89	2.4	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/13/2011 15:13	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-01	7439-97-6	Mercury	0.094	TRG	Yes	N		N/A	N/A	N	0.049	mg/kg	mg/kg		0.049	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7429-90-5	Aluminum	4900	TRG	Yes	Y		N/A	N/A	N	21	mg/kg	mg/kg	4.8	21	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7439-89-6	Iron	14000	TRG	Yes	Y		N/A	N/A	N	21	mg/kg	mg/kg	3.2	21	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.38	1.1	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7440-38-2	Arsenic	13	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	0.77	1.7	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7440-39-3	Barium	180	TRG	Yes	Y		N/A	N/A	N	21	mg/kg	mg/kg	7.9	21	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.64	mg/kg	mg/kg	0.38	0.64	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7440-70-2	Calcium	4400	TRG	Yes	N		N/A	N/A	N	110	mg/kg	mg/kg	51	110	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	0.64	mg/kg	mg/kg	0.38	0.64	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7440-48-4	Cobalt	9.5	TRG	Yes	Y		N/A	N/A	N	2.1	mg/kg	mg/kg	1.2	2.1	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7440-47-3	Chromium	13	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.63	1.1	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7440-50-8	Copper	13	TRG	Yes	Y		N/A	N/A	N	2.1	mg/kg	mg/kg	1.2	2.1	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7439-89-6	Iron	7100	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	3.2	11	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7440-09-7	Potassium	1100	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	22	57	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7439-95-4	Magnesium	1400	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	19	57	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7439-96-5	Manganese	170	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.42	0.57	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7440-23-5	Sodium	620	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	41	110	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7439-95-4	Magnesium	800	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	36	110	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:07	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-02	7439-96-5	Manganese	13	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.79	1.1	N/A	St. Croix Alumina - 1109036
DESA	ADP-WST41B	N/A	N/A	Solid

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	RMA-WST14A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-05	7439-92-1	Lead	45	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.48	0.91	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-05	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-05	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-05	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.0	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-05	7440-62-2	Vanadium	960	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.85	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:23	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-05	7440-66-6	Zinc	21	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.83	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/13/2011 15:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-05	7439-97-6	Mercury	0.147	TRG	Yes	N		N/A	N/A	N	0.058	mg/kg	mg/kg		0.058	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-06	7429-90-5	Aluminum	120000	TRG	Yes	Y		N/A	N/A	N	300		mg/kg	67	300	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-22-4	Silver	1.3	TRG	Yes	Y		N/A	N/A	N	0.59		mg/kg	0.21	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-38-2	Arsenic	8.2	TRG	Yes	Y		N/A	N/A	N	0.95	mg/kg	mg/kg	0.43	0.95	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-39-3	Barium	37	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.4	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-70-2	Calcium	20000	TRG	Yes	N		N/A	N/A	N	59	mg/kg	mg/kg	28	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.88	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-47-3	Chromium	250	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.43	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-50-8	Copper	9.7	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.66	1.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-06	7439-89-6	Iron	240000	TRG	Yes	Y		N/A	N/A	N	300	mg/kg	mg/kg	47	300	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-09-7	Potassium	460	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	22	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7439-95-4	Magnesium	11300	TRG	Yes	N		N/A	N/A	N	59	mg/kg	mg/kg	20	59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7439-96-5	Manganese	22	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.44	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-23-5	Sodium	49000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	40	120	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-02-0	Nickel	4.6	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.90	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7439-92-1	Lead	18	TRG	Yes	Y		N/A	N/A	N	0.95	mg/kg	mg/kg	0.50	0.95	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.7	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.4	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.1	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-62-2	Vanadium	620	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.89	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:29	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7440-66-6	Zinc	12	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.86	2.4	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST14B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/13/2011 15:30	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-06	7439-97-6	Mercury	0.461	TRG	Yes	N		N/A	N/A	N	0.054	mg/kg	mg/kg		0.054	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-22-4	Silver	1.6	TRG	Yes	Y		N/A	N/A	N	0.58	mg/kg	mg/kg	0.21	0.58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-07	7429-90-5	Aluminum	63000	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.2	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-38-2	Arsenic	12	TRG	Yes	Y		N/A	N/A	N	0.92	mg/kg	mg/kg	0.41	0.92	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-39-3	Barium	54	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.3	12	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-70-2	Calcium	35000	TRG	Yes	Y		N/A	N/A	N	58	mg/kg	mg/kg	28	58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-43-9	Cadmium	0.40	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.85	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-47-3	Chromium	320	TRG	Yes	Y		N/A	N/A	N	0.58	mg/kg	mg/kg	0.41	0.58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-50-8	Copper	15	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.64	1.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-07	7439-89-6	Iron	250000	TRG	Yes	Y		N/A	N/A	N	290	mg/kg	mg/kg	46	290	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-09-7	Potassium	690	TRG	Yes	Y		N/A	N/A	N	58	mg/kg	mg/kg	22	58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7439-95-4	Magnesium	1900	TRG	Yes	N		N/A	N/A	N	58	mg/kg	mg/kg	20	58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7439-96-5	Manganese	87	TRG	Yes	Y		N/A	N/A	N	0.58	mg/kg	mg/kg	0.43	0.58	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-23-5	Sodium	27000	TRG	Yes	N		N/A	N/A	N	120	mg/kg	mg/kg	39	120	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-02-0	Nickel	4.7	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.87	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7439-92-1	Lead	32	TRG	Yes	Y		N/A	N/A	N	0.92	mg/kg	mg/kg	0.48	0.92	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.1	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-62-2	Vanadium	760	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.86	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7440-66-6	Zinc	21	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.84	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST15A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/13/2011 15:32	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-07	7439-97-6	Mercury	0.193	TRG	Yes	N		N/A	N/A	N	0.050	mg/kg	mg/kg		0.050	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-22-4	Silver	1.4	TRG	Yes	Y		N/A	N/A	N	0.54	mg/kg	mg/kg	0.19	0.54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7429-90-5	Aluminum	68000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	3.9	11	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-38-2	Arsenic	11	TRG	Yes	Y		N/A	N/A	N	0.86	mg/kg	mg/kg	0.39	0.86	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-39-3	Barium	65	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.0	11	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.32	mg/kg	mg/kg	0.19	0.32	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-70-2	Calcium	25000	TRG	Yes	N		N/A	N/A	N	54	mg/kg	mg/kg	26	54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-43-9	Cadmium	0.47	TRG	Yes	Y		N/A	N/A	N	0.32	mg/kg	mg/kg	0.19	0.32	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.80	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-47-3	Chromium	410	TRG	Yes	Y		N/A	N/A	N	0.54	mg/kg	mg/kg	0.39	0.54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-50-8	Copper	13	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.60	1.1	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-08	7439-89-6	Iron	250000	TRG	Yes	Y		N/A	N/A	N	270	mg/kg	mg/kg	43	270	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-09-7	Potassium	370	TRG	Yes	Y		N/A	N/A	N	54	mg/kg	mg/kg	21	54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7439-95-4	Magnesium	1200	TRG	Yes	N		N/A	N/A	N	54	mg/kg	mg/kg	18	54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7439-96-5	Manganese	65	TRG	Yes	Y		N/A	N/A	N	0.54	mg/kg	mg/kg	0.40	0.54	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-23-5	Sodium	31000	TRG	Yes	N		N/A	N/A	N	110	mg/kg	mg/kg	37	110	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-02-0	Nickel	4.9	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.82	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7439-92-1	Lead	38	TRG	Yes	Y		N/A	N/A	N	0.86	mg/kg	mg/kg	0.45	0.86	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.5	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.99	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-62-2	Vanadium	800	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.81	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST16A	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 22:54	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-08	7440-66-6	Zinc	15	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.79	2.2	N/A	St. Croix Al

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	RMA-WST17B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-11	7440-62-2	Vanadium	520	TRG	Yes	Y		N/A	N/A	N	2.1	mg/kg	mg/kg	0.79	2.1	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST17B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-11	7440-66-6	Zinc	15	TRG	Yes	Y		N/A	N/A	N	2.1	mg/kg	mg/kg	0.77	2.1	N/A	St. Croix Alumina - 1109036
DESA	RMA-WST17B	N/A	N/A	Solid	Sample	FIELD	N/A	09/16/2011				N	EPA 245.1 / SOP C-110	10/13/2011 15:40	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-11	7439-97-6	Mercury	0.159	TRG	Yes	N		N/A	N/A	N	0.047	mg/kg	mg/kg		0.047	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	50	QUANT	1109065-12	7439-89-6	Iron	330000	TRG	Yes	Y		N/A	N/A	N	500			74	500	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.99	mg/kg	mg/kg	0.36	0.99	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7429-90-5	Aluminum	52000	TRG	Yes	N		N/A	N/A	N	20	mg/kg	mg/kg	7.2	20	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-38-2	Arsenic	ND	TRG	Yes	Y		N/A	N/A	N	1.6	mg/kg	mg/kg	0.71	1.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	20	mg/kg	mg/kg	7.3	20	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.36	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-70-2	Calcium	1800	TRG	Yes	Y		N/A	N/A	N	99	mg/kg	mg/kg	48	99	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.36	0.59	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	4.0	mg/kg	mg/kg	1.5	4.0	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-47-3	Chromium	16	TRG	Yes	Y		N/A	N/A	N	0.99	mg/kg	mg/kg	0.71	0.99	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	2.0	mg/kg	mg/kg	1.1	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-09-7	Potassium	ND	TRG	Yes	Y		N/A	N/A	N	99	mg/kg	mg/kg	38	99	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7439-95-4	Magnesium	190	TRG	Yes	Y		N/A	N/A	N	99	mg/kg	mg/kg	34	99	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7439-96-5	Manganese	39	TRG	Yes	Y		N/A	N/A	N	0.99	mg/kg	mg/kg	0.73	0.99	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-23-5	Sodium	710	TRG	Yes	Y		N/A	N/A	N	200	mg/kg	mg/kg	67	200	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-02-0	Nickel	ND	TRG	Yes	Y		N/A	N/A	N	4.0	mg/kg	mg/kg	1.5	4.0	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7439-92-1	Lead	2.1	TRG	Yes	Y		N/A	N/A	N	1.6	mg/kg	mg/kg	0.83	1.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	4.0	mg/kg	mg/kg	2.8	4.0	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	4.0	mg/kg	mg/kg	2.4	4.0	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	4.0	mg/kg	mg/kg	1.8	4.0	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-62-2	Vanadium	37	TRG	Yes	Y		N/A	N/A	N	4.0	mg/kg	mg/kg	1.5	4.0	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/17/2011 15:22	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-12	7440-66-6	Zinc	ND	TRG	Yes	Y		N/A	N/A	N	4.0	mg/kg	mg/kg	1.4	4.0	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST24A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/13/2011 15:47	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-12	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.053	mg/kg	mg/kg		0.053	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-13	7429-90-5	Aluminum	140000	TRG	Yes	Y		N/A	N/A	N	270			62	270	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-13	7439-89-6	Iron	130000	TRG	Yes	Y		N/A	N/A	N	270			41	270	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.20	0.55	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-38-2	Arsenic	12	TRG	Yes	Y		N/A	N/A	N	0.87	mg/kg	mg/kg	0.39	0.87	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-39-3	Barium	110	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.0	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	0.33	mg/kg	mg/kg	0.20	0.33	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-70-2	Calcium	26000	TRG	Yes	N		N/A	N/A	N	55	mg/kg	mg/kg	26	55	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.33	mg/kg	mg/kg	0.20	0.33	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-48-4	Cobalt	3.0	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.81	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-47-3	Chromium	740	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.39	0.55	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-50-8	Copper	17	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.61	1.1	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-09-7	Potassium	860	TRG	Yes	Y		N/A	N/A	N	55	mg/kg	mg/kg	21	55	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7439-95-4	Magnesium	7000	TRG	Yes	Y		N/A	N/A	N	55	mg/kg	mg/kg	19	55	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7439-96-5	Manganese	52	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.40	0.55	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-23-5	Sodium	48000	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	37	110	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-02-0	Nickel	13	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.83	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7439-92-1	Lead	66	TRG	Yes	Y		N/A	N/A	N	0.87	mg/kg	mg/kg	0.46	0.87	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.5	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.0	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:22	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-62-2	Vanadium	590	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.82	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:27	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7440-66-6	Zinc	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.80	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST28A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/13/2011 15:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-13	7439-97-6	Mercury	0.105	TRG	Yes	N		N/A	N/A	N	0.063	mg/kg	mg/kg		0.063	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-14	7439-89-6	Iron	140000	TRG	Yes	Y		N/A	N/A	N	230			35	230	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-22-4	Silver	1.3	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.17	0.46	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7429-90-5	Aluminum	48000	TRG	Yes	Y		N/A	N/A	N	9.2	mg/kg	mg/kg	3.3	9.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-38-2	Arsenic	12	TRG	Yes	Y		N/A	N/A	N	0.74	mg/kg	mg/kg	0.33	0.74	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-39-3	Barium	41	TRG	Yes	Y		N/A	N/A	N	9.2	mg/kg	mg/kg	3.4	9.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.28	mg/kg	mg/kg	0.17	0.28	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-14	7440-70-2	Calcium	150000	TRG	Yes	Y		N/A	N/A	N	1200	mg/kg	mg/kg	550	1200	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.28	mg/kg	mg/kg	0.17	0.28	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-48-4	Cobalt	2.4	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.68	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-47-3	Chromium	250	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.33	0.46	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-50-8	Copper	13	TRG	Yes	Y		N/A	N/A	N	0.92	mg/kg	mg/kg	0.52	0.92	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-09-7	Potassium	620	TRG	Yes	Y		N/A	N/A	N	46	mg/kg	mg/kg	17	46	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7439-95-4	Magnesium	3600	TRG	Yes	Y		N/A	N/A	N	46	mg/kg	mg/kg	16	46	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7439-96-5	Manganese	330	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.34	0.46	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-23-5	Sodium	23000	TRG	Yes	Y		N/A	N/A	N	92	mg/kg	mg/kg	31	92	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-02-0	Nickel	6.2	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.70	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7439-92-1	Lead	31	TRG	Yes	Y		N/A	N/A	N	0.74	mg/kg	mg/kg	0.39	0.74	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	1.8	mg/kg	mg/kg	1.3	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	1.1	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.85	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-62-2	Vanadium	430	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.69	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:28	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7440-66-6	Zinc	20	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.67	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/13/2011 15:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-14	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.045	mg/kg	mg/kg		0.045	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST30A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:33	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-15	7429-90-5	Aluminum	150000	TRG	Yes	Y		N/A	N/A	N	290			65	290	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST30A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:33	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-15	7439-89-6	Iron	130000	TRG	Yes	Y		N/A	N/A	N	290			43	290	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST30A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/11/2011 23:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-15	7440-22-4	Silver	0.73	TRG	Yes	Y		N/A	N/A	N	0.58	mg/kg	mg/kg	0.21	0.58	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST30A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7429-90-5	Aluminum	60000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	3.9	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-38-2	Arsenic	18	TRG	Yes	Y		N/A	N/A	N	0.87	mg/kg	mg/kg	0.39	0.87	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-39-3	Barium	46	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.0	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	0.32	mg/kg	mg/kg	0.19	0.32	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-70-2	Calcium	13000	TRG	Yes	N		N/A	N/A	N	54	mg/kg	mg/kg	26	54	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.32	mg/kg	mg/kg	0.19	0.32	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.80	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-47-3	Chromium	1000	TRG	Yes	Y		N/A	N/A	N	0.54	mg/kg	mg/kg	0.39	0.54	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-50-8	Copper	20	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.61	1.1	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-18	7439-89-6	Iron	210000	TRG	Yes	Y		N/A	N/A	N	270	mg/kg	mg/kg	43	270	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-09-7	Potassium	340	TRG	Yes	Y		N/A	N/A	N	54	mg/kg	mg/kg	21	54	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7439-95-4	Magnesium	740	TRG	Yes	Y		N/A	N/A	N	54	mg/kg	mg/kg	18	54	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7439-96-5	Manganese	93	TRG	Yes	Y		N/A	N/A	N	0.54	mg/kg	mg/kg	0.40	0.54	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-23-5	Sodium	26000	TRG	Yes	N		N/A	N/A	N	110	mg/kg	mg/kg	37	110	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-02-0	Nickel	5.6	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.82	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7439-92-1	Lead	110	TRG	Yes	Y		N/A	N/A	N	0.87	mg/kg	mg/kg	0.45	0.87	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.5	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.0	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-62-2	Vanadium	1500	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.81	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7440-66-6	Zinc	11	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.79	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/13/2011 16:00	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-18	7439-97-6	Mercury	0.045	TRG	Yes	N		N/A	N/A	N	0.043	mg/kg	mg/kg		0.043	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-19	7429-90-5	Aluminum	150000	TRG	Yes	Y		N/A	N/A	N	310			70	310	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	25	QUANT	1109065-19	7439-89-6	Iron	110000	TRG	Yes	Y		N/A	N/A	N	310			46	310	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.62	mg/kg	mg/kg	0.22	0.62	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-38-2	Arsenic	9.3	TRG	Yes	Y		N/A	N/A	N	0.99	mg/kg	mg/kg	0.45	0.99	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-39-3	Barium	100	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.6	12	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.37	mg/kg	mg/kg	0.22	0.37	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-70-2	Calcium	17000	TRG	Yes	N		N/A	N/A	N	62	mg/kg	mg/kg	30	62	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.37	mg/kg	mg/kg	0.22	0.37	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-48-4	Cobalt	2.7	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.91	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-47-3	Chromium	850	TRG	Yes	Y		N/A	N/A	N	0.62	mg/kg	mg/kg	0.45	0.62	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-50-8	Copper	14	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.69	1.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-09-7	Potassium	1100	TRG	Yes	Y		N/A	N/A	N	62	mg/kg	mg/kg	23	62	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7439-95-4	Magnesium	8000	TRG	Yes	Y		N/A	N/A	N	62	mg/kg	mg/kg	21	62	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7439-96-5	Manganese	150	TRG	Yes	Y		N/A	N/A	N	0.62	mg/kg	mg/kg	0.46	0.62	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-23-5	Sodium	47000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	42	120	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-02-0	Nickel	13	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.94	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7439-92-1	Lead	58	TRG	Yes	Y		N/A	N/A	N	0.99	mg/kg	mg/kg	0.52	0.99	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	1.7	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	1.5	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	1.1	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-62-2	Vanadium	450	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.93	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7440-66-6	Zinc	ND	TRG	Yes	Y		N/A	N/A	N	2.5	mg/kg	mg/kg	0.90	2.5	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST36A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/13/2011 16:02	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-19	7439-97-6	Mercury	0.112	TRG	Yes	N		N/A	N/A	N	0.053	mg/kg	mg/kg		0.053	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-20	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	1.5	mg/kg	mg/kg	0.53	1.5	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-20	7429-90-5	Aluminum	91000	TRG	Yes	Y		N/A	N/A	N	29	mg/kg	mg/kg	11	29	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-38-2	Arsenic	6.0	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.53	1.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-39-3	Barium	110	TRG	Yes	Y		N/A	N/A	N	15	mg/kg	mg/kg	5.4	15	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.44	mg/kg	mg/kg	0.26	0.44	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-70-2	Calcium	23000	TRG	Yes	N		N/A	N/A	N	73	mg/kg	mg/kg	35	73	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.44	mg/kg	mg/kg	0.26	0.44	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-48-4	Cobalt	2.9	TRG	Yes	Y		N/A	N/A	N	2.9	mg/kg	mg/kg	1.1	2.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-47-3	Chromium	1800	TRG	Yes	Y		N/A	N/A	N	0.73	mg/kg	mg/kg	0.53	0.73	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-50-8	Copper	22	TRG	Yes	Y		N/A	N/A	N	1.5	mg/kg	mg/kg	0.82	1.5	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-20	7439-89-6	Iron	67000	TRG	Yes	Y		N/A	N/A	N	29	mg/kg	mg/kg	4.7	29	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-09-7	Potassium	850	TRG	Yes	Y		N/A	N/A	N	73	mg/kg	mg/kg	28	73	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7439-95-4	Magnesium	12000	TRG	Yes	Y		N/A	N/A	N	73	mg/kg	mg/kg	25	73	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7439-96-5	Manganese	65	TRG	Yes	Y		N/A	N/A	N	0.73	mg/kg	mg/kg	0.54	0.73	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-23-5	Sodium	49000	TRG	Yes	N		N/A	N/A	N	150	mg/kg	mg/kg	50	150	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-02-0	Nickel	14	TRG	Yes	Y		N/A	N/A	N	2.9	mg/kg	mg/kg	1.1	2.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7439-92-1	Lead	73	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.62	1.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-36-0	Antimony	3.3	TRG	Yes	Y		N/A	N/A	N	2.9	mg/kg	mg/kg	2.1	2.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.9	mg/kg	mg/kg	1.8	2.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.9	mg/kg	mg/kg	1.4	2.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7440-62-2	Vanadium	590	TRG	Yes	Y		N/A	N/A	N	2.9	mg/kg	mg/kg	1.1	2.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 00:16	T	INITIAL	Solid	LB	Dry	2	QUANT	1109065-20	7440-66-6	Zinc	16	TRG	Yes	Y		N/A	N/A	N	5.9	mg/kg	mg/kg	2.1	5.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST38A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/13/2011 16:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-20	7439-97-6	Mercury	0.089	TRG	Yes	N		N/A	N/A	N	0.067	mg/kg	mg/kg		0.067	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST39A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 15:38	T	INITIAL	Solid	LB	Dry	10	QUANT	1109065-21	7439-89-6	Iron	93000	TRG	Yes	Y		N/A	N/A	N	66			20	66	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST39A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 15:38	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-21	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.66	mg/kg	mg/kg	0.24	0.66	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST39A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 15:38	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-21	7429-90-5	Aluminum	67000	TRG	Yes	Y		N/A	N/A	N	13	mg/kg	mg/kg	4.8	13	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST39A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 15:38	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-21	7440-38-2	Arsenic	21	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.48	1.1	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST39A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 15:38	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-21	7440-39-3	Barium	59	TRG	Yes	Y		N/A	N/A	N	13	mg/kg	mg/kg	4.9	13	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST39A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 15:38	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-21	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.40	mg/kg	mg/kg	0.24	0.40	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST39A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 15:38	T	INITIAL	Solid	LB	Dry	1	QUANT	1109065-21	7440-70-2	Calcium	26000	TRG	Yes	Y		N/A	N/A	N	66	mg/kg	mg/kg	32	66	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST39A	N/A	N/A	Solid	Sample	F

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7440-70-2	Calcium	6900	TRG	Yes	N		N/A	N/A	N	260	mg/kg	mg/kg	130	260	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	1.6	mg/kg	mg/kg	0.94	1.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	10	mg/kg	mg/kg	3.9	10	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7440-47-3	Chromium	350	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	1.9	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7440-50-8	Copper	15	TRG	Yes	Y		N/A	N/A	N	5.2	mg/kg	mg/kg	2.9	5.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	25	QUANT	1109071-01	7439-89-6	Iron	290000	TRG	Yes	Y		N/A	N/A	N	160	mg/kg	mg/kg	52	160	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7440-09-7	Potassium	480	TRG	Yes	Y		N/A	N/A	N	260	mg/kg	mg/kg	100	260	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7439-95-4	Magnesium	430	TRG	Yes	Y		N/A	N/A	N	260	mg/kg	mg/kg	89	260	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7439-96-5	Manganese	860	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	1.9	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7440-23-5	Sodium	66000	TRG	Yes	N		N/A	N/A	N	520	mg/kg	mg/kg	180	520	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7440-02-0	Nickel	12	TRG	Yes	Y		N/A	N/A	N	10	mg/kg	mg/kg	4.0	10	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7439-92-1	Lead	55	TRG	Yes	Y		N/A	N/A	N	4.2	mg/kg	mg/kg	2.2	4.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	10	mg/kg	mg/kg	7.3	10	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	10	mg/kg	mg/kg	6.3	10	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	10	mg/kg	mg/kg	4.8	10	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7440-62-2	Vanadium	630	TRG	Yes	Y		N/A	N/A	N	10	mg/kg	mg/kg	3.9	10	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:15	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-01	7440-66-6	Zinc	22	TRG	Yes	Y		N/A	N/A	N	10	mg/kg	mg/kg	3.8	10	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/14/2011 12:49	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-01	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.057	mg/kg	mg/kg	0.057		N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.80	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7429-90-5	Aluminum	57000	TRG	Yes	N		N/A	N/A	N	44	mg/kg	mg/kg	16	44	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-38-2	Arsenic	7.4	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	1.6	3.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	44	mg/kg	mg/kg	16	44	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.80	1.3	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-70-2	Calcium	5300	TRG	Yes	N		N/A	N/A	N	220	mg/kg	mg/kg	110	220	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	1.3	mg/kg	mg/kg	0.80	1.3	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	8.9	mg/kg	mg/kg	3.3	8.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-47-3	Chromium	280	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.6	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-50-8	Copper	21	TRG	Yes	Y		N/A	N/A	N	4.4	mg/kg	mg/kg	2.5	4.4	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	25	QUANT	1109071-02	7439-89-6	Iron	400000	TRG	Yes	Y		N/A	N/A	N	140	mg/kg	mg/kg	44	140	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-09-7	Potassium	220	TRG	Yes	Y		N/A	N/A	N	220	mg/kg	mg/kg	85	220	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7439-95-4	Magnesium	400	TRG	Yes	Y		N/A	N/A	N	220	mg/kg	mg/kg	76	220	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7439-96-5	Manganese	3100	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.6	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-23-5	Sodium	29000	TRG	Yes	Y		N/A	N/A	N	440	mg/kg	mg/kg	150	440	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-02-0	Nickel	9.1	TRG	Yes	Y		N/A	N/A	N	8.9	mg/kg	mg/kg	3.4	8.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7439-92-1	Lead	59	TRG	Yes	Y		N/A	N/A	N	3.6	mg/kg	mg/kg	1.9	3.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	8.9	mg/kg	mg/kg	6.2	8.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	8.9	mg/kg	mg/kg	5.3	8.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	8.9	mg/kg	mg/kg	4.1	8.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-62-2	Vanadium	860	TRG	Yes	Y		N/A	N/A	N	8.9	mg/kg	mg/kg	3.3	8.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:26	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-02	7440-66-6	Zinc	60	TRG	Yes	Y		N/A	N/A	N	8.9	mg/kg	mg/kg	3.2	8.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST22B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/14/2011 12:51	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-02	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.046	mg/kg	mg/kg		0.046	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-22-4	Silver	0.82	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.21	0.57	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7429-90-5	Aluminum	44000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-38-2	Arsenic	17	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.41	0.91	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-39-3	Barium	59	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.2	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-41-7	Beryllium	0.51	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.21	0.34	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-70-2	Calcium	13000	TRG	Yes	N		N/A	N/A	N	57	mg/kg	mg/kg	27	57	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-43-9	Cadmium	1.0	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.21	0.34	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-48-4	Cobalt	3.4	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.84	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-47-3	Chromium	440	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.41	0.57	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-50-8	Copper	21	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.64	1.1	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	25	QUANT	1109071-03	7439-89-6	Iron	290000	TRG	Yes	Y		N/A	N/A	N	140	mg/kg	mg/kg	46	140	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-09-7	Potassium	190	TRG	Yes	N		N/A	N/A	N	57	mg/kg	mg/kg	22	57	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7439-95-4	Magnesium	490	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	19	57	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7439-96-5	Manganese	650	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.42	0.57	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-23-5	Sodium	32000	TRG	Yes	N		N/A	N/A	N	110	mg/kg	mg/kg	39	110	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-02-0	Nickel	6.3	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.87	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7439-92-1	Lead	66	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.48	0.91	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-36-0	Antimony	7.6	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7782-49-2	Selenium	3.1	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.1	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-62-2	Vanadium	910	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.86	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 16:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7440-66-6	Zinc	30	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.83	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/14/2011 12:57	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-03	7439-97-6	Mercury	0.080	TRG	Yes	N		N/A	N/A	N	0.047	mg/kg	mg/kg	0.047		N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:51	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-04	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	0.68	1.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:51	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-04	7429-90-5	Aluminum	50000	TRG	Yes	N		N/A	N/A	N	38	mg/kg	mg/kg	14	38	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:51	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-04	7440-38-2	Arsenic	10	TRG	Yes	Y		N/A	N/A	N	3.0	mg/kg	mg/kg	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:51	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-04	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	38	mg/kg	mg/kg	14	38	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:51	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-04	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.68	1.1	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:51	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-04	7440-70-2	Calcium	3900	TRG	Yes	N		N/A	N/A	N	190	mg/kg	mg/kg	91	190	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:51	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-04	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.68	1.1	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:51	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-04	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	7.6	mg/kg	mg/kg	2.8	7.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:51	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-04	7440-47-3	Chromium	230	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	1.4	1.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:51	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-04	7440-50-8	Copper	16	TRG	Yes	Y		N/A	N/A	N	3.8	mg/kg	mg/kg	2.1	3.8	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 12:51	T	INITIAL	Solid	LB	Dry	25	QUANT	1109071-04	7439-89-6	Iron	360000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	38	120	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST23B	N/A	N/A	Solid	Sample	FIELD	N/A

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7440-50-8	Copper	15	TRG	Yes	Y		N/A	N/A	N	5.5	mg/kg	mg/kg	3.1	5.5	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7439-89-6	Iron	210000	TRG	Yes	Y		N/A	N/A	N	28	mg/kg	mg/kg	8.8	28	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7440-09-7	Potassium	320	TRG	Yes	Y		N/A	N/A	N	280	mg/kg	mg/kg	100	280	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7439-95-4	Magnesium	540	TRG	Yes	Y		N/A	N/A	N	280	mg/kg	mg/kg	94	280	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7439-96-5	Manganese	680	TRG	Yes	Y		N/A	N/A	N	2.8	mg/kg	mg/kg	2.0	2.8	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7440-23-5	Sodium	68000	TRG	Yes	N		N/A	N/A	N	550	mg/kg	mg/kg	190	550	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7440-02-0	Nickel	ND	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.2	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7439-92-1	Lead	41	TRG	Yes	Y		N/A	N/A	N	4.4	mg/kg	mg/kg	2.3	4.4	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	7.7	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	6.6	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	5.1	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7440-62-2	Vanadium	460	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:23	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-07	7440-66-6	Zinc	21	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.0	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST29B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/14/2011 13:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-07	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.073	mg/kg	mg/kg		0.073	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	2.8	mg/kg	mg/kg	1.0	2.8	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7429-90-5	Aluminum	68000	TRG	Yes	N		N/A	N/A	N	56	mg/kg	mg/kg	20	56	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-38-2	Arsenic	7.4	TRG	Yes	Y		N/A	N/A	N	4.5	mg/kg	mg/kg	2.0	4.5	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	56	mg/kg	mg/kg	21	56	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	1.0	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-70-2	Calcium	15000	TRG	Yes	Y		N/A	N/A	N	280	mg/kg	mg/kg	130	280	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	1.7	mg/kg	mg/kg	1.0	1.7	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-47-3	Chromium	500	TRG	Yes	Y		N/A	N/A	N	2.8	mg/kg	mg/kg	2.0	2.8	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-50-8	Copper	16	TRG	Yes	Y		N/A	N/A	N	5.6	mg/kg	mg/kg	3.1	5.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7439-89-6	Iron	220000	TRG	Yes	Y		N/A	N/A	N	28	mg/kg	mg/kg	8.9	28	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-09-7	Potassium	ND	TRG	Yes	Y		N/A	N/A	N	280	mg/kg	mg/kg	110	280	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7439-95-4	Magnesium	1000	TRG	Yes	Y		N/A	N/A	N	280	mg/kg	mg/kg	95	280	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7439-96-5	Manganese	310	TRG	Yes	Y		N/A	N/A	N	2.8	mg/kg	mg/kg	2.1	2.8	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-23-5	Sodium	45000	TRG	Yes	Y		N/A	N/A	N	560	mg/kg	mg/kg	190	560	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-02-0	Nickel	ND	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.2	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7439-92-1	Lead	54	TRG	Yes	Y		N/A	N/A	N	4.5	mg/kg	mg/kg	2.3	4.5	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	11	mg/kg	mg/kg	7.8	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	6.7	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	5.1	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-62-2	Vanadium	610	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.2	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:33	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-08	7440-66-6	Zinc	13	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST34B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/14/2011 13:08	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-08	7439-97-6	Mercury	ND	TRG	Yes	N		N/A	N/A	N	0.048	mg/kg	mg/kg		0.048	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	25	QUANT	1109071-09	7439-89-6	Iron	240000	TRG	Yes	Y		N/A	N/A	N	160	mg/kg	mg/kg	49	160	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-22-4	Silver	1.5	TRG	Yes	Y		N/A	N/A	N	0.66	mg/kg	mg/kg	0.24	0.66	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7429-90-5	Aluminum	55000	TRG	Yes	Y		N/A	N/A	N	13	mg/kg	mg/kg	4.8	13	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-38-2	Arsenic	12	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.47	1.0	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-39-3	Barium	41	TRG	Yes	Y		N/A	N/A	N	13	mg/kg	mg/kg	4.9	13	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.39	mg/kg	mg/kg	0.24	0.39	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-70-2	Calcium	20000	TRG	Yes	N		N/A	N/A	N	66	mg/kg	mg/kg	31	66	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-43-9	Cadmium	0.50	TRG	Yes	Y		N/A	N/A	N	0.39	mg/kg	mg/kg	0.24	0.39	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-48-4	Cobalt	2.9	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	0.97	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-47-3	Chromium	630	TRG	Yes	Y		N/A	N/A	N	0.66	mg/kg	mg/kg	0.47	0.66	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-50-8	Copper	18	TRG	Yes	Y		N/A	N/A	N	1.3	mg/kg	mg/kg	0.73	1.3	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-09-7	Potassium	160	TRG	Yes	N		N/A	N/A	N	66	mg/kg	mg/kg	25	66	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7439-95-4	Magnesium	680	TRG	Yes	Y		N/A	N/A	N	66	mg/kg	mg/kg	22	66	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7439-96-5	Manganese	370	TRG	Yes	Y		N/A	N/A	N	0.66	mg/kg	mg/kg	0.49	0.66	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-23-5	Sodium	20000	TRG	Yes	N		N/A	N/A	N	130	mg/kg	mg/kg	45	130	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-02-0	Nickel	5.7	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	1.0	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7439-92-1	Lead	80	TRG	Yes	Y		N/A	N/A	N	1.0	mg/kg	mg/kg	0.55	1.0	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-36-0	Antimony	7.5	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	1.8	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	1.6	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	1.2	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-62-2	Vanadium	790	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	0.98	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/12/2011 17:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7440-66-6	Zinc	18	TRG	Yes	Y		N/A	N/A	N	2.6	mg/kg	mg/kg	0.96	2.6	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37A	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	10/14/2011 13:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109071-09	7439-97-6	Mercury	0.066	TRG	Yes	Y		N/A	N/A	N	0.047	mg/kg	mg/kg		0.047	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	3.1	mg/kg	mg/kg	1.1	3.1	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7429-90-5	Aluminum	70000	TRG	Yes	N		N/A	N/A	N	62	mg/kg	mg/kg	23	62	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7440-38-2	Arsenic	7.8	TRG	Yes	Y		N/A	N/A	N	5.0	mg/kg	mg/kg	2.2	5.0	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7440-39-3	Barium	79	TRG	Yes	Y		N/A	N/A	N	62	mg/kg	mg/kg	23	62	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	1.1	1.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7440-70-2	Calcium	24000	TRG	Yes	Y		N/A	N/A	N	310	mg/kg	mg/kg	130	310	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	1.9	mg/kg	mg/kg	1.1	1.9	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	12	mg/kg	mg/kg	4.6	12	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7440-47-3	Chromium	970	TRG	Yes	Y		N/A	N/A	N	3.1	mg/kg	mg/kg	2.2	3.1	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7440-50-8	Copper	16	TRG	Yes	Y		N/A	N/A	N	6.2	mg/kg	mg/kg	3.5	6.2	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7439-89-6	Iron	180000	TRG	Yes	Y		N/A	N/A	N	31	mg/kg	mg/kg	10	31	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7440-09-7	Potassium	ND	TRG	Yes	Y		N/A	N/A	N	310	mg/kg	mg/kg	120	310	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7439-95-4	Magnesium	990	TRG	Yes	N		N/A	N/A	N	310	mg/kg	mg/kg	110	310	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7439-96-5	Manganese	240	TRG	Yes	Y		N/A	N/A	N	3.1	mg/kg	mg/kg	2.3	3.1	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011 13:58	T	INITIAL	Solid	LB	Dry	4	QUANT	1109071-10	7440-23-5	Sodium	45000	TRG	Yes	Y		N/A	N/A	N	620	mg/kg	mg/kg	210	620	N/A	St. Croix Alumina - 1109036
DESA	RMB-WST37B	N/A	N/A	Solid	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/18/2011

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	SCA-GW02F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:53	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-03	7440-09-7	Potassium	30000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW02F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:53	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-03	7439-95-4	Magnesium	77000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW02F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:53	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-03	7439-96-5	Manganese	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW02F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/03/2011 16:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-03	7440-23-5	Sodium	1100000	TRG	Yes	N		N/A	N/A	N	1000	ug/L	ug/L	270	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW02F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:53	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-03	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW02F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:53	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-03	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW02F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:53	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-03	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW02F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:53	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-03	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW02F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:53	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-03	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW02F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:53	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-03	7440-62-2	Vanadium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW02F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:53	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-03	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW02F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	09/28/2011 16:37	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-03	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7429-90-5	Aluminum	ND	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7439-89-6	Iron	690	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-38-2	Arsenic	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-39-3	Barium	140	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-70-2	Calcium	78000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-09-7	Potassium	18000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7439-95-4	Magnesium	57000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7439-96-5	Manganese	640	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/03/2011 16:55	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-23-5	Sodium	490000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	270	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:58	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	09/28/2011 16:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-04	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 300.0/ SOP C-94	09/26/2011 15:08	T	INITIAL	Aqueous	LB	NA	20	QUANT	1109072-04	16887-00-6	Chloride	770	TRG	Yes	Y		N/A	N/A	N	20	mg/L	mg/L	2.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7429-90-5	Aluminum	ND	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7439-89-6	Iron	710	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-38-2	Arsenic	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-39-3	Barium	130	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-70-2	Calcium	77000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-09-7	Potassium	17000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7439-95-4	Magnesium	54000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7439-96-5	Manganese	630	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/03/2011 17:00	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-23-5	Sodium	480000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	270	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW03F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	09/28/2011 16:41	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-05	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7429-90-5	Aluminum	ND	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7439-89-6	Iron	1400	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7440-38-2	Arsenic	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7440-70-2	Calcium	93000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7440-09-7	Potassium	17000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7439-95-4	Magnesium	51000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7439-96-5	Manganese	35	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/03/2011 17:48	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109072-06	7440-23-5	Sodium	3900000	TRG	Yes	N		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW04	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 18:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-06	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	SCA-GW07F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-09	7439-95-4	Magnesium	58000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW07F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-09	7439-96-5	Manganese	50	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW07F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/03/2011 17:57	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109072-09	7440-23-5	Sodium	1700000	TRG	Yes	Y		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW07F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-09	7440-02-0	Nickel	170	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW07F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-09	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW07F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-09	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW07F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-09	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW07F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-09	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW07F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-09	7440-62-2	Vanadium	42	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW07F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:01	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-09	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW07F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 245.1 / SOP C-110	09/28/2011 16:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-09	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7429-90-5	Aluminum	ND	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7439-89-6	Iron	1500	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-38-2	Arsenic	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-39-3	Barium	360	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-70-2	Calcium	160000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-09-7	Potassium	24000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7439-95-4	Magnesium	170000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7439-96-5	Manganese	350	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/03/2011 18:02	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109072-10	7440-23-5	Sodium	12000000	TRG	Yes	Y		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 245.1 / SOP C-110	09/28/2011 16:56	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-10	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 300.0/ SOP C-94	09/26/2011 13:44	T	INITIAL	Aqueous	LB	NA	100	QUANT	1109072-10	16887-00-6	Chloride	7770	TRG	Yes	Y		N/A	N/A	N	100	mg/L	mg/L	13	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7429-90-5	Aluminum	ND	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7439-89-6	Iron	1100	TRG	Yes	N		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-38-2	Arsenic	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-39-3	Barium	360	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-70-2	Calcium	170000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-09-7	Potassium	24000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7439-95-4	Magnesium	180000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7439-96-5	Manganese	340	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/03/2011 18:07	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109072-11	7440-23-5	Sodium	1300000	TRG	Yes	Y		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW08F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 245.1 / SOP C-110	09/28/2011 16:59	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-11	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7429-90-5	Aluminum	ND	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7439-89-6	Iron	ND	TRG	Yes	N		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-38-2	Arsenic	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-70-2	Calcium	ND	TRG	Yes	N		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-09-7	Potassium	ND	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7439-95-4	Magnesium	ND	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7439-96-5	Manganese	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	10/03/2011 18:12	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-23-5	Sodium	ND	TRG	Yes	N		N/A	N/A	N	1000	ug/L	ug/L	270	1000	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	WST-RIN05	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/19/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:31	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-12	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	FBS-WST45A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-15	7440-02-0	Nickel	5.2	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.88	2.3	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST45A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-15	7439-92-1	Lead	30	TRG	Yes	Y		N/A	N/A	N	0.92	mg/kg	mg/kg	0.48	0.92	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST45A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-15	7440-36-0	Antimony	6.0	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST45A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-15	7782-49-2	Selenium	3.2	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST45A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-15	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.1	2.3	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST45A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-15	7440-62-2	Vanadium	580	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.87	2.3	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST45A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:06	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-15	7440-66-6	Zinc	73	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.84	2.3	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST45A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 245.1 / SOP C-110	10/14/2011 13:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-15	7439-97-6	Mercury	0.165	TRG	Yes	N		N/A	N/A	N	0.058	mg/kg	mg/kg		0.058	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	25	QUANT	1109072-16	7439-89-6	Iron	140000	TRG	Yes	Y		N/A	N/A	N	150			44	150	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-22-4	Silver	1.2	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.21	0.59	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7429-90-5	Aluminum	12	TRG	Yes	Y		N/A	N/A	N	4.3	mg/kg	mg/kg	4.3	12	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-38-2	Arsenic	47	TRG	Yes	Y		N/A	N/A	N	0.94	mg/kg	mg/kg	0.42	0.94	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-39-3	Barium	13	TRG	Yes	N		N/A	N/A	N	12	mg/kg	mg/kg	4.4	12	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-70-2	Calcium	9300	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	28	59	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-43-9	Cadmium	0.56	TRG	Yes	Y		N/A	N/A	N	0.35	mg/kg	mg/kg	0.21	0.35	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.87	2.4	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-47-3	Chromium	180	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.42	0.59	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-50-8	Copper	16	TRG	Yes	Y		N/A	N/A	N	1.2	mg/kg	mg/kg	0.66	1.2	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-09-7	Potassium	320	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	22	59	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7439-95-4	Magnesium	450	TRG	Yes	Y		N/A	N/A	N	59	mg/kg	mg/kg	20	59	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7439-96-5	Manganese	38	TRG	Yes	Y		N/A	N/A	N	0.59	mg/kg	mg/kg	0.44	0.59	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	25	QUANT	1109072-16	7440-23-5	Sodium	110000	TRG	Yes	Y		N/A	N/A	N	3000	mg/kg	mg/kg	1000	3000	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-02-0	Nickel	6.1	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.90	2.4	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7439-92-1	Lead	25	TRG	Yes	Y		N/A	N/A	N	0.94	mg/kg	mg/kg	0.50	0.94	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-36-0	Antimony	4.1	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.7	2.4	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7782-49-2	Selenium	3.1	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.4	2.4	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	1.1	2.4	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-62-2	Vanadium	660	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.89	2.4	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:11	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7440-66-6	Zinc	200	TRG	Yes	Y		N/A	N/A	N	2.4	mg/kg	mg/kg	0.86	2.4	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST46A	N/A	N/A	Solid	Sample	FIELD	N/A	09/20/2011				N	EPA 245.1 / SOP C-110	10/14/2011 13:33	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-16	7439-97-6	Mercury	0.236	TRG	Yes	N		N/A	N/A	N	0.055	mg/kg	mg/kg		0.055	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7439-89-6	Iron	500000	TRG	Yes	Y		N/A	N/A	N	500			140	500	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7429-90-5	Aluminum	280000	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-38-2	Arsenic	150	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-39-3	Barium	250	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-70-2	Calcium	15000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-47-3	Chromium	2900	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-50-8	Copper	61	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-09-7	Potassium	22000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7439-95-4	Magnesium	4000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7439-96-5	Manganese	190	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/03/2011 18:17	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109072-17	7440-23-5	Sodium	1200000	TRG	Yes	Y		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-02-0	Nickel	31	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7439-92-1	Lead	67	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7782-49-2	Selenium	54	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-62-2	Vanadium	5200	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7440-66-6	Zinc	36	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	RMA-SW57	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 245.1 / SOP C-110	09/28/2011 17:03	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-17	7439-97-6	Mercury	0.710	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7429-90-5	Aluminum	1000	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7439-89-6	Iron	1100	TRG	Yes	N		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-38-2	Arsenic	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-70-2	Calcium	49000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-47-3	Chromium	5.1	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-09-7	Potassium	ND	TRG	Yes	N		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7439-95-4	Magnesium	1900	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7439-96-5	Manganese	29	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/03/2011 18:22	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-23-5	Sodium	330000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	270	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 19:51	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-18	7440-62-2	Vanadium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW01	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	SCA-GW05F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-21	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW05F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-21	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW05F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-21	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW05F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-21	7440-62-2	Vanadium	27	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW05F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:06	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-21	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW05F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 245.1 / SOP C-110	09/28/2011 17:22	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-21	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7429-90-5	Aluminum	ND	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7439-89-6	Iron	61	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7440-38-2	Arsenic	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.500	ug/L	ug/L	0.130	0.500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7440-50-8	Copper	ND	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109072-22	7440-09-7	Potassium	400000	TRG	Yes	Y		N/A	N/A	N	25000	ug/L	ug/L	3900	25000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109072-22	7439-95-4	Magnesium	1200000	TRG	Yes	Y		N/A	N/A	N	13000	ug/L	ug/L	3500	13000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7439-96-5	Manganese	5400	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/03/2011 18:51	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109072-22	7440-23-5	Sodium	10000000	TRG	Yes	Y		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:11	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 245.1 / SOP C-110	09/28/2011 17:24	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-22	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 300.0/ SOP C-94	09/30/2011 09:22	T	INITIAL	Aqueous	LB	NA	500	QUANT	1109072-22	16887-00-6	Chloride	15000	TRG	Yes	Y		N/A	N/A	N	500	mg/L	mg/L	65	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7429-90-5	Aluminum	ND	TRG	Yes	Y		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7439-89-6	Iron	ND	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-38-2	Arsenic	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-70-2	Calcium	340000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	0.500	ug/L	ug/L	0.130	0.500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-50-8	Copper	ND	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109072-23	7440-09-7	Potassium	400000	TRG	Yes	Y		N/A	N/A	N	25000	ug/L	ug/L	3900	25000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109072-23	7439-95-4	Magnesium	1200000	TRG	Yes	Y		N/A	N/A	N	13000	ug/L	ug/L	3500	13000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7439-96-5	Manganese	5300	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	10/03/2011 18:56	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109072-23	7440-23-5	Sodium	9900000	TRG	Yes	Y		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-62-2	Vanadium	39	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:30	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-23	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 245.1 / SOP C-110	09/28/2011 17:35	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-26	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW09F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 300.0/ SOP C-94	09/30/2011 09:53	T	INITIAL	Aqueous	LB	NA	250	QUANT	1109072-26	16887-00-6	Chloride	2500	TRG	Yes	Y		N/A	N/A	N	250	mg/L	mg/L	32	250	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7429-90-5	Aluminum	ND	TRG	Yes	N		N/A	N/A	N	100			25	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7439-89-6	Iron	ND	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-38-2	Arsenic	130	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-39-3	Barium	ND	TRG	Yes	N		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-70-2	Calcium	770	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-43-9	Cadmium	ND	TRG	Yes	N		N/A	N/A	N	0.500	ug/L	ug/L	0.130	0.500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-47-3	Chromium	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-50-8	Copper	ND	TRG	Yes	Y		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-09-7	Potassium	76000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7439-95-4	Magnesium	14000	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7439-96-5	Manganese	5.3	TRG	Yes	Y		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109072-27	7440-23-5	Sodium	3700000	TRG	Yes	N		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7439-92-1	Lead	ND	TRG	Yes	Y		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7782-49-2	Selenium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-28-0	Thallium	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-62-2	Vanadium	37	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 200.7 / SOP C-109	09/30/2011 20:50	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW11F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/20/2011				N	EPA 245.1 / SOP C-110	09/28/2011 17:37	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109072-27	7439-97-6	Mercury	ND	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	10	QUANT	1109072-28	7439-89-6	Iron	62000	TRG	Yes	Y		N/A	N/A	N	56			17	56	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-22-4	Silver	ND	TRG	Yes	Y		N/A	N/A	N	0.56	mg/kg	mg/kg	0.20	0.56	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7429-90-5	Aluminum	68000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-38-2	Arsenic	6.3	TRG	Yes	Y		N/A	N/A	N	0.90	mg/kg	mg/kg	0.40	0.90	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-39-3	Barium	15	TRG	Yes	N		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.20	0.34	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-70-2	Calcium	42000	TRG	Yes	Y		N/A	N/A	N	56	mg/kg	mg/kg	27	56	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-43-9	Cadmium	0.72	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.20	0.34	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	2.2	mg/kg	mg/kg	0.83	2.2	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-47-3	Chromium	99	TRG	Yes	Y		N/A	N/A	N	0.56	mg/kg	mg/kg	0.40	0.56	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-50-8	Copper	5.9	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.63	1.1	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-09-7	Potassium	260	TRG	Yes	Y		N/A	N/A	N	56	mg/kg	mg/kg	21	56	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7439-95-4	Magnesium	1500	TRG	Yes	N		N/A	N/A	N	56	mg/kg	mg/kg	19	56	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7439-96-5	Manganese	29	TRG	Yes	Y		N/A	N/A	N	0.56	mg/kg	mg/kg	0.41	0.56	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-23-5	Sodium	5100	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	38	110	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-02-0	Nickel	2.2	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.85	2.2	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7439-92-1	Lead	9.6	TRG	Yes	Y		N/A	N/A	N	0.90	mg/kg	mg/kg	0.47	0.90	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-36-0	Antimony	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.6	2.2	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.0	2.2	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-62-2	Vanadium	180	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.84	2.2	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:31	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7440-66-6	Zinc	140	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.82	2.2	N/A	St. Croix Alumina - 1109036
DESA	FBS-WST43A	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 245.1 / SOP C-110	10/14/2011 13:35	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-28	7439-97-6	Mercury	0.098	TRG	Yes	N		N/A	N/A	N	0.040	mg/kg	mg/kg	0.040	0.040	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-22-4	Silver	1.3	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.20	0.55	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7429-90-5	Aluminum	34000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.0	11	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-38-2	Arsenic	18	TRG	Yes	Y		N/A	N/A	N	0.88	mg/kg	mg/kg	0.40	0.88	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-39-3	Barium	49	TRG	Yes	Y		N/A	N/A	N	4.1	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.33	mg/kg	mg/kg	0.20	0.33	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-70-2	Calcium	52000	TRG	Yes	Y		N/A	N/A	N	55	mg/kg	mg/kg	27	55	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-43-9	Cadmium	0.34	TRG	Yes	Y		N/A	N/A	N	0.33	mg/kg	mg/kg	0.20	0.33	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.82	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-47-3	Chromium	300	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.40	0.55	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-50-8	Copper	15	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.62	1.1	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	25	QUANT	1109072-29	7439-89-6	Iron	290000	TRG	Yes	Y		N/A	N/A	N	140	mg/kg	mg/kg	44	140	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-09-7	Potassium	220	TRG	Yes	Y		N/A	N/A	N	55	mg/kg	mg/kg	21	55	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7439-95-4	Magnesium	1400	TRG	Yes	N		N/A	N/A	N	55	mg/kg	mg/kg	19	55	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7439-96-5	Manganese	130	TRG	Yes	Y		N/A	N/A	N	0.55	mg/kg	mg/kg	0.41	0.55	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-23-5	Sodium	13000	TRG	Yes	N		N/A	N/A	N	110	mg/kg	mg/kg	38	110	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-02-0	Nickel	2.9	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.84	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7439-92-1	Lead	39	TRG	Yes	Y		N/A	N/A	N	0.88	mg/kg	mg/kg	0.46	0.88	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-36-0	Antimony	7.2	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.5	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7782-49-2	Selenium	3.7	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.3	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	1.0	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-62-2	Vanadium	860	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.83	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:37	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7440-66-6	Zinc	12	TRG	Yes	Y		N/A	N/A	N	2.2	mg/kg	mg/kg	0.81	2.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD57	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 245.1 / SOP C-110	10/14/2011 13:38	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-29	7439-97-6	Mercury	0.175	TRG	Yes	Y		N/A	N/A	N	0.043	mg/kg	mg/kg			N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	25	QUANT	1109072-30	7439-89-6	Iron	130000	TRG	Yes	Y		N/A	N/A	N	140			43	140	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-22-4	Silver	0.70	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.20	0.57	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7429-90-5	Aluminum	43000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.1	11	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-38-2	Arsenic	7.8	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.41	0.91	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-39-3	Barium	73	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.2	11	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.20	0.34	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	25	QUANT	1109072-30	7440-70-2	Calcium	150000	TRG	Yes	Y		N/A	N/A	N	1400	mg/kg	mg/kg	680	1400	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	0.34	mg/kg	mg/kg	0.20	0.34	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-48-4	Cobalt	2.7	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.84	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-47-3	Chromium	230	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.41	0.57	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-50-8	Copper	14	TRG	Yes	Y		N/A	N/A	N	1.1	mg/kg	mg/kg	0.64	1.1	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-09-7	Potassium	680	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	22	57	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7439-95-4	Magnesium	3300	TRG	Yes	Y		N/A	N/A	N	57	mg/kg	mg/kg	19	57	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7439-96-5	Manganese	190	TRG	Yes	Y		N/A	N/A	N	0.57	mg/kg	mg/kg	0.42	0.57	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-23-5	Sodium	21000	TRG	Yes	Y		N/A	N/A	N	110	mg/kg	mg/kg	39	110	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-02-0	Nickel	5.5	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.87	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7439-92-1	Lead	22	TRG	Yes	Y		N/A	N/A	N	0.91	mg/kg	mg/kg	0.48	0.91	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-36-0	Antimony	3.6	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.6	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7782-49-2	Selenium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.4	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	1.0	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-62-2	Vanadium	400	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.85	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD58	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:42	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-30	7440-66-6	Zinc	21	TRG	Yes	Y		N/A	N/A	N	2.3	mg/kg	mg/kg	0.83	2.3	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD59	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 18:48	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-31	7429-90-5	Aluminum	47000	TRG	Yes	Y		N/A	N/A	N	11	mg/kg	mg/kg	4.0	11	N/A	St. Croix Alumina -

data_provider	sys_sample_code	sys_loc_code	sample_name	sample_matrix_code	sample_type_code	sample_source	parent_sample_code	sample_date	start_depth	end_depth	depth_unit	composite_yn	lab_anl_method_name	analysis_date	total_or_dissolved	test_type	lab_matrix_code	analysis_location	basis	dilution_factor	qc_level	lab_sample_id	cas_rn	chemical_name	result_value	result_type_code	reportable_result	detect_flag	lab_qualifiers	validator_qualifiers	interpreted_qualifiers	organic_yn	reporting_detection_limit	result_unit	detection_limit_unit	method_detection_limit	quantitation_limit	task_code	result_comment
DESA	RMA-SD61	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 245.1 / SOP C-110	10/14/2011 13:50	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-33	7439-97-6	Mercury	0.469	TRG	Yes	N		N/A	N/A	N	0.048	mg/kg	mg/kg		0.048	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-22-4	Silver	1.2	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.17	0.46	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7429-90-5	Aluminum	23000	TRG	Yes	N		N/A	N/A	N	9.2	mg/kg	mg/kg	3.3	9.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-38-2	Arsenic	15	TRG	Yes	Y		N/A	N/A	N	0.74	mg/kg	mg/kg	0.33	0.74	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-39-3	Barium	50	TRG	Yes	Y		N/A	N/A	N	9.2	mg/kg	mg/kg	3.4	9.2	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.28	mg/kg	mg/kg	0.17	0.28	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-70-2	Calcium	23000	TRG	Yes	Y		N/A	N/A	N	46	mg/kg	mg/kg	22	46	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-43-9	Cadmium	0.61	TRG	Yes	Y		N/A	N/A	N	0.28	mg/kg	mg/kg	0.17	0.28	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.68	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-47-3	Chromium	290	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.33	0.46	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-50-8	Copper	16	TRG	Yes	Y		N/A	N/A	N	0.92	mg/kg	mg/kg	0.52	0.92	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	25	QUANT	1109072-34	7439-89-6	Iron	330000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	37	120	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-09-7	Potassium	240	TRG	Yes	Y		N/A	N/A	N	46	mg/kg	mg/kg	18	46	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7439-95-4	Magnesium	1900	TRG	Yes	Y		N/A	N/A	N	46	mg/kg	mg/kg	16	46	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7439-96-5	Manganese	170	TRG	Yes	Y		N/A	N/A	N	0.46	mg/kg	mg/kg	0.34	0.46	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-23-5	Sodium	4500	TRG	Yes	Y		N/A	N/A	N	92	mg/kg	mg/kg	31	92	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-02-0	Nickel	3.9	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.70	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7439-92-1	Lead	43	TRG	Yes	Y		N/A	N/A	N	0.74	mg/kg	mg/kg	0.39	0.74	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-36-0	Antimony	8.1	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	1.3	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7782-49-2	Selenium	3.2	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	1.1	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.85	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-62-2	Vanadium	860	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.69	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:04	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7440-66-6	Zinc	14	TRG	Yes	Y		N/A	N/A	N	1.8	mg/kg	mg/kg	0.67	1.8	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD62	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 245.1 / SOP C-110	10/14/2011 13:53	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-34	7439-97-6	Mercury	0.145	TRG	Yes	N		N/A	N/A	N	0.046	mg/kg	mg/kg		0.046	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-22-4	Silver	1.2	TRG	Yes	Y		N/A	N/A	N	0.49	mg/kg	mg/kg	0.18	0.49	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7429-90-5	Aluminum	22000	TRG	Yes	N		N/A	N/A	N	9.8	mg/kg	mg/kg	3.6	9.8	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-38-2	Arsenic	16	TRG	Yes	Y		N/A	N/A	N	0.78	mg/kg	mg/kg	0.35	0.78	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-39-3	Barium	54	TRG	Yes	Y		N/A	N/A	N	9.8	mg/kg	mg/kg	3.6	9.8	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-41-7	Beryllium	ND	TRG	Yes	Y		N/A	N/A	N	0.29	mg/kg	mg/kg	0.18	0.29	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-70-2	Calcium	18000	TRG	Yes	N		N/A	N/A	N	49	mg/kg	mg/kg	23	49	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-43-9	Cadmium	0.47	TRG	Yes	Y		N/A	N/A	N	0.29	mg/kg	mg/kg	0.18	0.29	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-48-4	Cobalt	ND	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.72	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-47-3	Chromium	310	TRG	Yes	Y		N/A	N/A	N	0.49	mg/kg	mg/kg	0.35	0.49	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-50-8	Copper	17	TRG	Yes	Y		N/A	N/A	N	0.98	mg/kg	mg/kg	0.55	0.98	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	25	QUANT	1109072-35	7439-89-6	Iron	380000	TRG	Yes	Y		N/A	N/A	N	120	mg/kg	mg/kg	39	120	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-09-7	Potassium	250	TRG	Yes	Y		N/A	N/A	N	49	mg/kg	mg/kg	19	49	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7439-95-4	Magnesium	1700	TRG	Yes	Y		N/A	N/A	N	49	mg/kg	mg/kg	17	49	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7439-96-5	Manganese	170	TRG	Yes	Y		N/A	N/A	N	0.49	mg/kg	mg/kg	0.36	0.49	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-23-5	Sodium	4600	TRG	Yes	Y		N/A	N/A	N	98	mg/kg	mg/kg	33	98	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-02-0	Nickel	3.8	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.74	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7439-92-1	Lead	47	TRG	Yes	Y		N/A	N/A	N	0.78	mg/kg	mg/kg	0.41	0.78	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-36-0	Antimony	10	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	1.4	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7782-49-2	Selenium	3.7	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	1.2	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	3.9	mg/kg	mg/kg	0.90	3.9	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-62-2	Vanadium	980	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.73	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/12/2011 19:10	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7440-66-6	Zinc	12	TRG	Yes	Y		N/A	N/A	N	2.0	mg/kg	mg/kg	0.71	2.0	N/A	St. Croix Alumina - 1109036
DESA	RMA-SD63	N/A	N/A	Solid	Sample	FIELD	N/A	09/21/2011				N	EPA 245.1 / SOP C-110	10/14/2011 13:55	T	INITIAL	Solid	LB	Dry	1	QUANT	1109072-35	7439-97-6	Mercury	0.179	TRG	Yes	N		N/A	N/A	N	0.047	mg/kg	mg/kg		0.047	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7439-89-6	Iron	170	TRG	Yes	Y		N/A	N/A	N	50	ug/L	ug/L	14	50	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7429-90-5	Aluminum	320000	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-38-2	Arsenic	2700	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-39-3	Barium	ND	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-41-7	Beryllium	ND	TRG	Yes	N		N/A	N/A	N	3.0	ug/L	ug/L	1.4	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-70-2	Calcium	500	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	130	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-43-9	Cadmium	ND	TRG	Yes	Y		N/A	N/A	N	3.0	ug/L	ug/L	1.5	3.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-48-4	Cobalt	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-47-3	Chromium	1400	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	2.9	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-50-8	Copper	ND	TRG	Yes	N		N/A	N/A	N	10	ug/L	ug/L	2.3	10	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-09-7	Potassium	79000	TRG	Yes	Y		N/A	N/A	N	1000	ug/L	ug/L	150	1000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7439-95-4	Magnesium	ND	TRG	Yes	Y		N/A	N/A	N	500	ug/L	ug/L	140	500	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7439-96-5	Manganese	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	3.0	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	10/03/2011 16:21	T	INITIAL	Aqueous	LB	NA	25	QUANT	1109073-01	7440-23-5	Sodium	5900000	TRG	Yes	N		N/A	N/A	N	25000	ug/L	ug/L	6900	25000	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-02-0	Nickel	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.4	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7439-92-1	Lead	ND	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	2.4	8.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-36-0	Antimony	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7782-49-2	Selenium	350	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	11	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-28-0	Thallium	ND	TRG	Yes	Y		N/A	N/A	N	20	ug/L	ug/L	7.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-62-2	Vanadium	18000	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.6	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:09	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7440-66-6	Zinc	ND	TRG	Yes	N		N/A	N/A	N	20	ug/L	ug/L	5.7	20	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 245.1 / SOP C-110	09/28/2011 17:39	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-01	7439-97-6	Mercury	0.501	TRG	Yes	Y		N/A	N/A	N	0.200	ug/L	ug/L	0.002	0.200	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 300.0/ SOP C-94	10/03/2011 09:52	T	INITIAL	Aqueous	LB	NA	125	QUANT	1109073-01	16887-00-6	Chloride	1400	TRG	Yes	Y		N/A	N/A	N	120	mg/L	mg/L	16	120	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-02	7439-89-6	Iron	ND	TRG	Yes	Y		N/A	N/A	N	50			14	50	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-02	7440-22-4	Silver	ND	TRG	Yes	N		N/A	N/A	N	5.0	ug/L	ug/L	1.3	5.0	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-02	7429-90-5	Aluminum	330000	TRG	Yes	Y		N/A	N/A	N	100	ug/L	ug/L	28	100	N/A	St. Croix Alumina - 1109036
DESA	SCA-GW06F	N/A	N/A	Aqueous	Sample	FIELD	N/A	09/21/2011				N	EPA 200.7 / SOP C-109	09/30/2011 17:33	T	INITIAL	Aqueous	LB	NA	1	QUANT	1109073-02	7440-38-2	Arsenic	2800	TRG	Yes	N		N/A	N/A	N	8.0	ug/L	ug/L	4.8	8.0	N/A	St. Croix Alumina - 1109036
DES

Functional Guidelines for Evaluating Organic Analysis

CASE No.: 41746 **SDG No.: B98L4**
LABORATORY: ChemTech **SITE: St Croix Alumina**
ANALYSIS: BNA

DATA ASSESSMENT

The current SOP HW-35/SVOA (Revision 1) August 2007, USEPA Region II Data Validation SOP for Statement of Work SOM01.2 for evaluating organic data have been applied.

Data has been reviewed according to TDF specifications, the National Functional Guidelines Report and the CCS Semi- Automated Screening Results Report.

Tentatively Indentified Compounds (TICS) for BNA organic fraction is not validated.

All data are valid and acceptable except those analytes rejected "R"(unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Dorina Christina Alliu **Date:** October/19/2011

Peer Reviewer's Signature: _____ **Date:** ____/____/2011

Verified By: _____ **Date:** ____/____/2011

SDG# B98L4

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

The following semi-volatile water samples are outside primary extraction holding time criteria. Detected compounds are qualified J. Non-detected compounds are qualified UJ.

B98L4, B4A18RX, B98W0RX

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

The following semi-volatile samples have deuterated monitoring compound recovery above the upper limit of the criteria window. Detected compounds are qualified J. Non-detected compounds are not qualified.

2-Nitrophenol-d4 B98W0, B98W0RE
2-Nitrophenol, Isophorone

2,4-Dichlorophenol-d3 B98W0RE
1,2,4,5-Tetrachlorobenzene, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 4-Chloro-3-methylphenol, Hexachlorobutadiene, Pentachlorophenol

Nitrobenzene-d5 B98W0, B98W0RE
2,4-Dinitrotoluene, 2,6-Dinitrotoluene, Acetophenone, Hexachloroethane, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Nitrobenzene

4,6-Dinitro-2-methylphenol-d2 B98W0, B98W0RE, B98W8
4,6-Dinitro-2-methylphenol

The following semi-volatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified J. Non-detected compounds

are qualified UJ.

4-Chloroaniline-d4 B4A18, B4A18RE, B4A18RX, B98L4, B98L5, B98L7, B98W0, B98W0RE, B98W0RX
3,3'-Dichlorobenzidine, 4-Chloroaniline, Hexachlorocyclopentadiene

2-Chlorophenol-d4 B4A18, B4A18RE
2-Chlorophenol

Bis(2-Chloroethyl)ether-d8 B4A18, B4A18RE
2,2'-Oxybis(1-chloropropane), Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether

Pyrene-d10 B4A18, B4A18RE
Benzo(a)anthracene, Chrysene, Fluoranthene, Pyrene

4-Nitrophenol-d4 B4A18, B4A18RE, B98L4, B98L5, B98L7, B98T0, B98T6, B98W8, B98X0
2,4-Dinitrophenol, 2-Nitroaniline, 3-Nitroaniline, 4-Nitroaniline, 4-Nitrophenol

Nitrobenzene-d5 B4A18, B4A18RE
2,4-Dinitrotoluene, 2,6-Dinitrotoluene, Acetophenone, Hexachloroethane, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Nitrobenzene

Acenaphthylene-d8 B98L5
2-Chloronaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Naphthalene

Anthracene-d10 B4A18, B4A18RE
Anthracene, Atrazine, Hexachlorobenzene, Phenanthrene

Phenol-d5 B4A18, B4A18RE, B4A18RX, B98L4, B98L5, B98L7, B98T0, B98T6, B98W0, B98W0RE, B98W0RX, B98W8, B98X0
Benzaldehyde, Phenol

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Not applicable

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of

samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the sample shown were qualified with "U" for these reasons:

A)

Method blank contamination:

No problems found for this qualification

B) Field or rinse blank contamination:

The following semi-volatile samples have analyte concentrations reported less than the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified U. Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

Benzaldehyde B98W0, B98W0RE, B98W0RX

C) Trip blank contamination for VOA aqueous samples:

Not Applicable

D) Storage Blank associated with VOA samples only:

Not Applicable

.

E) Tics "R" rejected:

Tentatively Indentified Compounds (TICS) for BNA organic fraction is not validated.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene and for semi-volatiles Decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems found for this qualification as per NFG/CCS report

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The

continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected "R".

No problems found for this qualification

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and %D must be < 25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R".

The following analytes in the sample shown were qualified for %RSD and %D:

The following semi-volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected compounds are qualified J. Non-detected compounds are not qualified.

Indeno(1,2,3-cd)pyrene B4A18RE, B98W0RX, SBLK15

Pentachlorophenol B4A18, B4A18RE, B4A18RX, B98L4, B98L5, B98L7, B98T0, B98T6, B98W0, B98W0RE, B98W0RX, B98W8, B98X0, SBLK12, SBLK15

8. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than □30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction.

No problems found for this qualification

9. COMPOUND IDENTIFICATION:

A) Semi-Volatile Fractions:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within □ 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No problems found for this qualification as per NFG/CCS report

10. CONTRACT PROBLEMS NON-COMPLIANCE:

None

11. FIELD DOCUMENTATION:

No problems

12. OTHER PROBLEMS:

None

13. This package contains re-extractions, re-analyses or dilutions. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.

B4A18RE, B4A18RX, B98W0RE, B98W0RX

Functional Guidelines for Evaluating Organic Analysis

CASE No.: 41746 **SDG No.: B5722**
LABORATORY: Chemtech **SITE: St. Croix Alumina**
ANALYSIS: BNA

DATA ASSESSMENT

The current SOP HW-35/SVOA (Revision 1) August 2007, USEPA Region II Data Validation SOP for Statement of Work SOM01.2 for evaluating organic data have been applied.

Data has been reviewed according to TDF specifications, the National Functional Guidelines Report # 3 and CCS Semi-Automated Screening Results Report.

Tentatively Identified Compounds (TICS) for BNA organic fractions are not validated. They are validated only at the specific request of the data user.

All data are valid and acceptable except those analytes rejected "R"(unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Raxa J. Shelley **Date:** October/19/ 2011

Peer Reviewer's Signature: _____ **Date:** ____/____/2011

Verified By: _____ **Date:** ____/____/2011

SDG# B5722

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problems found for this qualification.

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified J. Non-detected compounds are qualified UJ.

Benzo(a)pyrene-d12 B4A15, B4A16, B4A17, B4A25
Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene

Pyrene-d10 B4A15, B4A16, B4A17, B4A25
Benzo(a)anthracene, Chrysene, Fluoranthene, Pyrene

4-Nitrophenol-d4 B4A15, B4A17, B5723, B5723MSD, B5726, B5728
2,4-Dinitrophenol, 2-Nitroaniline, 3-Nitroaniline, 4-Nitroaniline, 4-Nitrophenol

Dimethylphthalate-d6 B5726
1,1'-Biphenyl, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Caprolactam, Di-n-butylphthalate, Di-n-octylphthalate, Diethylphthalate, Dimethylphthalate

4,6-Dinitro-2-methylphenol-d2 B4A13, B4A15, B5726
4,6-Dinitro-2-methylphenol

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Not applicable.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the sample shown were qualified with "U" for these reasons:

A) Method blank contamination:
No problems found for this qualification as per NFG/CCS report.

B) Field or rinse blank contamination:
No additional qualification due to rinse blank contamination.

C) Trip blank contamination for VOA aqueous samples:
Not applicable.

D) Storage Blank associated with VOA samples only:
Not applicable.

E) Tics "R" rejected:
Tentatively Identified Compounds (TICS) for BNA organic fractions are not validated. They are validated only at the specific request of the data user.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene and for semi-volatiles Decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems found for this qualification as per NFG/CCS report.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be ≥ 0.05, and ≥ 0.01 for the twenty-five analytes with poor response in both the initial and continuing calibrations. A value < 0.05, or < 0.01 for the poor performers indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected "R".

No problems found for this qualification as per NFG/CCS report.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 20%, and < 40% for the poor performers. % D must be < 25%, and < 40% for the poor performers. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R".

The following analytes in the sample shown were qualified for %RSD and %D:

The following semivolatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected compounds are qualified J. Non-detected compounds are not qualified.

Indeno(1,2,3-cd)pyrene
B4A15, B4A16, B4A17, B5722, B5723, B5723MS, SBLK13

Pentachlorophenol
B4A13, B4A15, B4A16, B4A17, B4A20, B4A21, B4A22, B4A23, B4A24, B4A25, B5722, B5723, B5723MS, B5723MSD, B5726, B5728, SBLK13

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than □30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction.

No problems found for this qualification.

8. COMPOUND IDENTIFICATION:

A) Semi-Volatile Fractions:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within □ 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No problems found for this qualification as per NFG/CCS report.

9. CONTRACT PROBLEMS NON-COMPLIANCE: No problem.

10. FIELD DOCUMENTATION: No problem.

11. OTHER PROBLEMS: None.

12. T**his package contains re-extracted, reanalyzed or dilution runs. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.**
None.

Functional Guidelines for Evaluating Organic Analysis

CASE No.: 41746 **SDG No.: B5722**
LABORATORY: Chemtech **SITE: St. Croix Alumina**
ANALYSIS: PCB

DATA ASSESSMENT

The current SOP HW-37 (Revision 1) August 2007, USEPA Region II Data Validation SOP for Statement of Work SOM01.2 for evaluating organic data have been applied.

Data has been reviewed according to TDF specifications, the National Functional Guidelines Report # 3 and CCS Semi-Automated Screening Results Report.

All data are valid and acceptable except those analytes rejected "R"(unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N"(presumptive evidence for the presence of the material), "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Raxa J. Shelley **Date:** October/19/2011

Peer Reviewer's Signature: _____ **Date:** _____/___/2011

Verified By: _____ **Date:** _____/_____/2011

SDG# B5722

1. HOLDING TIME：

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problem found for this qualification.

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

No problem found for this qualification.

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

No problem found for this qualification.

4. Laboratory Control Samples (LCS):

The LCSs data provides information on the accuracy of the analytical method and laboratory performance. If LCS recoveries fell outside of the acceptable limits, qualifications were applied to the associated samples and compounds as shown below.

No problem found for this qualification.

5. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the concentration of the analyte in the blank, the analytes are qualified as non-detects U.
The following analytes in the sample shown were qualified with "U" for these reasons:

A) Method blank contamination:
No problem found for this qualification.

B) Field or rinse blank contamination:
No problem found for this qualification.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

For the PCB fraction, if %RSD exceeds 20% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For opening CCV, or closing CCV that is used as an opening CCV for the next 12-hour period, if %D exceeds 15% for analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For closing CCV, if %D exceeds 50% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

No problem found for this qualification.

7. COMPOUND IDENTIFICATION:

A) PCB Fraction:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract.

No problem found for this qualification.

8. CONTRACT PROBLEMS NON-COMPLIANCE: No problem.

9. FIELD DOCUMENTATION: No problem.

10. OTHER PROBLEMS: None.

11. This package contains reextractions, reanalyses or dilutions. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.
None.

Functional Guidelines for Evaluating Organic Analysis

CASE No.: 41746 **SDG No.: B98L4**
LABORATORY: ChemTech **SITE: St Croix Alumina**
ANALYSIS: PCB

DATA ASSESSMENT

The current SOP HW-37 (Revision 1) August 2007, USEPA Region II Data Validation SOP for Statement of Work SOM01.2 for evaluating organic data have been applied.

All data are valid and acceptable except those analytes rejected "R"(unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N"(presumptive evidence for the presence of the material), "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: **Dorina Christina Alliu** **Date: October/19/2011**

Peer Reviewer's Signature: _____ **Date: _____/___/2011**

Verified By: _____ **Date: _____/_____/2011**

SDG# B98L4

1. HOLDING TIME：

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

The following aroclor water samples are outside primary extraction holding time criteria. Detected compounds are qualified J. Non-detected compounds are qualified UJ.

B98L4, B98W0RX

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

The following aroclor samples have surrogate percent recoveries less than 30% but greater than 10%. Detected compounds are qualified J. Non-detected compounds are qualified UJ.

Tetrachloro-m-xylene B98W0
Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268

Decachlorobiphenyl B98L7, B98W0
Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

No problems found for this qualification

4. Laboratory Control Samples (LCS):

The LCSs data provides information on the accuracy of the analytical method and laboratory performance. If LCS recoveries fell outside of the acceptable limits, qualifications were applied to the associated samples and compounds as shown below.

No problems found for this qualification

5. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the concentration of the analyte in the blank, the analytes are qualified as non-detects U.
The following analytes in the sample shown were qualified with "U" for these reasons:

A) Method blank contamination:

No problems found for this qualification.

B) Field or rinse blank contamination:

No problems found for this qualification.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

For the PCB fraction, if %RSD exceeds 20% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For opening CCV, or closing CCV that is used as an opening CCV for the next 12-hour period, if %D exceeds 15% for analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For closing CCV, if %D exceeds 50% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

The following aroclor samples are associated with an opening or closing CCV with % Difference exceeding criteria. Detected compounds are qualified J. Non-detected compounds are qualified UJ.

Tetrachloro-m-xylene ABLK03, ALCS03, B98W0RX

7. COMPOUND IDENTIFICATION:

A) PCB Fraction:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract.

No problems found for this qualification.

8. CONTRACT PROBLEMS NON-COMPLIANCE: None.

9. FIELD DOCUMENTATION: No problems.

10. OTHER PROBLEMS: None

11. This package contains reextractions, reanalyses or dilutions. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.

B98W0RX

Functional Guidelines for Evaluating Organic Analysis

CASE No.: 41746 **SDG No.: B98L4**
LABORATORY: ChemTech **SITE: St Croix Alumina**
ANALYSIS: VOA

DATA ASSESSMENT

The current SOP HW-33/VOA (Revision 1) August 2007, USEPA Region II Data Validation SOP for Statement of Work SOM01.2 for evaluating organic data has been applied.

Data has been reviewed according to TDF specifications, the National Functional Guidelines Report and the CCS Semi- Automated Screening Results Report.

Tentatively Indentified Compounds (TICS) for VOA organic fraction is not validated.

All data are valid and acceptable except those analytes rejected "R"(unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N"(presumptive evidence for the presence of the material), "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Dorina Christina Alliu **Date:** October/19/2011

Peer Reviewer's Signature: _____ **Date:** ____/____/2011

Verified By: _____ **Date:** ____/____/2011

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problems found for this qualification

2. DMC's

All samples are spiked with surrogate compounds (DMC's) prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Non-detected compounds are not qualified.

1,4-Dioxane-d8 B98W6
1,4-Dioxane

The following volatile samples have one or more DMC/SMC recovery values is less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. Detected compounds are qualified J. Non-detected compounds are qualified UJ.

trans-1,3-Dichloropropene-d4 B98L5, B98M1, B98M2, B98T0, B98T6, B98T8, B98W2, B98W8, B98X0
1,1,2-Trichloroethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Not Applicable

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 1 times the blank contaminant level (2 times for common contaminants), the analytes are qualified as non-detects, "U".

The following analytes in the sample shown were qualified with "U" for these reasons:

A) Method blank contamination:

No problems found for this qualification.

B) Field or rinse blank contamination:

No problems found for this qualification.

C) Trip blank contamination for VOA aqueous samples:

No qualification was applied.

D) Storage Blank associated with VOA samples only:

No problems found for this qualification.

E) Tics "R" rejected:

Tentatively Indentified Compounds (TICS) for VOA organic fraction is not validated.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene.

If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems found for this qualification as per NFG/CCS report

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be ≥ 0.05, and ≥ 0.01 for the twenty-two analytes with poor response in both the initial and continuing calibrations. A value < 0.05, or < 0.01 for the poor performers indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected "R".

The following volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. Detected compounds are qualified J. Non-detected compounds are qualified R.

1,4-Dioxane B98L5, B98L9, B98M0, B98M1, B98T2, B98T4, B98T6, B98W2, B98W4, B98W6, B98W8, B98X0, VBLK07

The following volatile samples are associated with an initial calibration with average relative response factors (mean RRFs) outside criteria. Detected compounds are qualified J. Non-detected compounds are qualified R.

1,4-Dioxane B98L5, B98L9, B98M0, B98M1, B98M2, B98T0, B98T2, B98T4, B98T6, B98T8, B98W0, B98W0DL, B98W2, B98W4, B98W6, B98W8, B98X0, VBLK03, VBLK07, VBLK08, VHBLK01

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 20%, < 40% for the poor performers, and < 50% for 1,4-Dioxane. %D must be < 25%, < 40% for the poor performers, and < 50% for 1,4-Dioxane. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria (> 90%), non-detects data may be qualified "R".

The following analytes in the sample shown were qualified for %RSD and %D:

The following volatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Non-detected compounds are qualified UJ.

1,1,2,2-Tetrachloroethane B98M2, B98T0, B98T8, VBLK08

8. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +200%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than □30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +200%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction.

No problems found for this qualification

9. COMPOUND IDENTIFICATION:

A) Volatile Fraction:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within □ 0.06 RRT units of the standard compound and have ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No problems found for this qualification.

10. CONTRACT PROBLEMS NON-COMPLIANCE:

None

11. FIELD DOCUMENTATION:

No problems found for this qualification.

12. OTHER PROBLEMS:

None

13. This package contains reextractions, reanalyses or dilutions. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.

B98W0DL

Functional Guidelines for Evaluating Organic Analysis

CASE No.: 41746 **SDG No.: B98N2**
LABORATORY: ChemTech **SITE: St Croix Alumina**
ANALYSIS: BNA

DATA ASSESSMENT

The current SOP HW-35/SVOA (Revision 1) August 2007, USEPA Region II Data Validation SOP for Statement of Work SOM01.2 for evaluating organic data have been applied.

Data has been reviewed according to TDF specifications, the National Functional Guidelines Report and the CCS Semi- Automated Screening Results Report.

Tentatively Indentified Compounds (TICS) for BNA organic fraction is not validated.

All data are valid and acceptable except those analytes rejected "R"(unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Dorina Christina Alliu **Date:** October/14/2011

Peer Reviewer's Signature: _____ **Date:** ____/____/2011

Verified By: _____ **Date:** ____/____/2011

SDG# B98N2

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

The following semi-volatile water samples are outside primary extraction holding time criteria. Detected compounds are qualified J. Non-detected compounds are qualified UJ.

B98R6RX, B98R1RX, B98R1RXRE, B98R6RXRE

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

The following semi-volatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified J. Non-detected compounds are qualified UJ.

Benzo(a)pyrene-d12 B98R1, B98R1RE, B98R1RX, B98R1RXRE, B98R6, B98R6RE
Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene

Bis(2-Chloroethyl)ether-d8 B98R1, B98R1RE, B98R1RXRE, B98R6, B98R6RE, B98R6RX, B98R6RXRE
2,2'-Oxybis(1-chloropropane), Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether

2,4-Dichlorophenol-d3 B98R1, B98R1RE, B98R6, B98R6RE, B98R6RX
1,2,4,5-Tetrachlorobenzene, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 4-Chloro-3-methylphenol, Hexachlorobutadiene, Pentachlorophenol

4-Nitrophenol-d4 B5721, B98L3, B98N2, B98P7, B98R1, B98R1RE, B98R1RX, B98R1RXRE, B98R6, B98R6RE, B98R6RX, B98R6RXRE, B98S1, B98S3, B98S9
2,4-Dinitrophenol, 2-Nitroaniline, 3-Nitroaniline, 4-Nitroaniline, 4-Nitrophenol

Dimethylphthalate-d6 B98R1, B98R1RE, B98R6, B98R6RE, B98R6RX, B98R6RXRE
1,1'-Biphenyl, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Caprolactam, Di-n-butylphthalate,

Di-n-octylphthalate, Diethylphthalate, Dimethylphthalate

4,6-Dinitro-2-methylphenol-d2 B98R1RE, B98R6, B98R6RE
4,6-Dinitro-2-methylphenol

Anthracene-d10 B98R1, B98R1RE, B98R1RX, B98R1RXRE, B98R6, B98R6RE, B98R6RX, B98R6RXRE
Anthracene, Atrazine, Hexachlorobenzene, Phenanthrene

4-Chloroaniline-d4 B98R1RX, B98R1RXRE, B98S1
3,3'-Dichlorobenzidine, 4-Chloroaniline, Hexachlorocyclopentadiene

2-Chlorophenol-d4 B98R1, B98R1RE, B98R6, B98R6RE, B98R6RX, B98R6RXRE
2-Chlorophenol

Pyrene-d10 B98R1, B98R1RE, B98R1RX, B98R1RXRE, B98R6, B98R6RE, B98R6RX, B98R6RXRE
Benzo(a)anthracene, Chrysene, Fluoranthene, Pyrene

Fluorene-d10 B98R1, B98R1RE, B98R6, B98R6RE, B98R6RX, B98R6RXRE
4-Bromophenyl-phenylether, 4-Chlorophenyl-phenylether, Carbazole, Dibenzofuran, Fluorene

2-Nitrophenol-d4 B98R1, B98R1RE, B98R6, B98R6RE, B98R6RX, B98R6RXRE
2-Nitrophenol, Isophorone

Nitrobenzene-d5 B98R1, B98R1RE, B98R6, B98R6RE, B98R6RX, B98R6RXRE
2,4-Dinitrotoluene, 2,6-Dinitrotoluene, Acetophenone, Hexachloroethane, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Nitrobenzene

4-Methylphenol-d8 B98R6, B98R6RE, B98R6RXRE
2,4-Dimethylphenol, 2-Methylphenol, 4-Methylphenol

Acenaphthylene-d8 B98R1, B98R1RE, B98R1RX, B98R1RXRE, B98R6, B98R6RE, B98R6RXRE
2-Chloronaphthalene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Naphthalene

Phenol-d5 B5721, B98L3, B98N2, B98P7, B98R1, B98R1RE, B98R1RX, B98R1RXRE, B98R6, B98R6RE, B98R6RX, B98R6RXRE, B98R9, B98S1, B98S3, B98S9
Benzaldehyde, Phenol

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Not applicable

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the sample shown were qualified with "U" for these reasons:

A)

Method blank contamination:

No problems found for this qualification

B) Field or rinse blank contamination:

No additional qualification was applied.

C) Trip blank contamination for VOA aqueous samples:

Not Applicable

D) Storage Blank associated with VOA samples only:

Not Applicable

.

E) Tics "R" rejected:

Tentatively Indentified Compounds (TICS) for BNA organic fraction is not validated.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene and for semi-volatiles Decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems found for this qualification as per NFG/CCS report

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of

producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected "R".

No problems found for this qualification

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 30% and %D must be < 25%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R".

The following analytes in the sample shown were qualified for %RSD and %D:

The following semi-volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected compounds are qualified J. Non-detected compounds are not qualified.

Indeno(1,2,3-cd)pyrene B5721, B98L3, B98N2, B98P7, B98R1, B98R1RE, B98R1RX, B98R1RXRE, B98R6, B98R6RE, B98R6RX, B98R6RXRE, B98R9, B98S1, B98S3, B98S9, SBLK05, SBLK07, SBLK12

Pentachlorophenol B5721, B98L3, B98N2, B98P7, B98R1, B98R1RE, B98R1RX, B98R1RXRE, B98R6, B98R6RE, B98R6RX, B98R6RXRE, B98R9, B98S1, B98S3, B98S9, SBLK05, SBLK07, SBLK12

8. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the

positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction.

No problems found for this qualification

9. COMPOUND IDENTIFICATION:

A) Semi-Volatile Fractions:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within □ 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No problems found for this qualification as per NFG/CCS report

10. CONTRACT PROBLEMS NON-COMPLIANCE:

None

11. FIELD DOCUMENTATION:

No problems

12. OTHER PROBLEMS:

None

13. This package contains re-extractions, re-analyses or dilutions. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.

B98R6, B98R6RE, B98R6RXRE, B98R1, B98R1RE, B98R1RXRE.

Functional Guidelines for Evaluating Organic Analysis

CASE No.: 41746 **SDG No.: B98N2**
LABORATORY: ChemTech **SITE: St Croix Alumina**
ANALYSIS: PCB

DATA ASSESSMENT

The current SOP HW-37 (Revision 1) August 2007, USEPA Region II Data Validation SOP for Statement of Work SOM01.2 for evaluating organic data have been applied.

All data are valid and acceptable except those analytes rejected "R"(unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N"(presumptive evidence for the presence of the material), "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: **Dorina Christina Alliu** **Date: October/14/2011**

Peer Reviewer's Signature: _____ **Date: _____/___/2011**

Verified By: _____ **Date: _____/_____/2011**

SDG# B98N2

1. HOLDING TIME：

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problems found for this qualification

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

No problems found for this qualification

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

No problems found for this qualification

4. Laboratory Control Samples (LCS):

The LCSs data provides information on the accuracy of the analytical method and laboratory performance. If LCS recoveries fell outside of the acceptable limits, qualifications were applied to the associated samples and compounds as shown below.

No problems found for this qualification

5. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the concentration of the analyte in the blank, the analytes are qualified as non-detects U.
The following analytes in the sample shown were qualified with "U" for these reasons:

A) Method blank contamination:

No problems found for this qualification.

B) Field or rinse blank contamination:

No problems found for this qualification.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

For the PCB fraction, if %RSD exceeds 20% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For opening CCV, or closing CCV that is used as an opening CCV for the next 12-hour period, if %D exceeds 15% for analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For closing CCV, if %D exceeds 50% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

The following aroclor samples are associated with an opening or closing CCV with % Difference exceeding criteria. Detected compounds are qualified J. Non-detected compounds are qualified UJ.

Tetrachloro-m-xylene ABLK01, ABLK02, ALCS01, ALCS02, B5721, B98L3, B98N2, B98P7, B98R1, B98R6, B98R9, B98S1, B98S3, B98S3MS, B98S3MSD, B98S9

Aroclor-1016 ABLK01, ABLK02, ALCS01, ALCS02, B5721, B98L3, B98N2, B98P7, B98R1, B98R6, B98R9, B98S1, B98S3, B98S3MS, B98S3MSD, B98S9

7. COMPOUND IDENTIFICATION:

A) PCB Fraction:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract.

No problems found for this qualification.

8. CONTRACT PROBLEMS NON-COMPLIANCE: None.

9. FIELD DOCUMENTATION: No problems.

10. OTHER PROBLEMS: None

11. This package contains reextractions, reanalyses or dilutions. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.

None

Functional Guidelines for Evaluating Organic Analysis

CASE No.: 41746 **SDG Nos.: B56Z1**
LABORATORY: CHEM **SITE: ST. CROIX ALUMINA**
ANALYSIS: PCB

DATA ASSESSMENT

The current SOP HW-37 (Revision 1) August 2007, USEPA Region II Data Validation SOP for Statement of Work SOM01.2 for evaluating organic data have been applied.

Data has been reviewed according to TDF specifications, the National Functional Guidelines Report # 3 and CCS Semi-Automated Screening Results Report.

All data are valid and acceptable except those analytes rejected "R"(unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N"(presumptive evidence for the presence of the material), "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: **Shobitha Capil** **Date: October / 17 /2011**

Peer Reviewer's Signature: _____ **Date: _____/___/2011**

Verified By: _____ **Date: _____/_____/2011**

SDG# B56Z1

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problem found for this qualification.

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

No problem found for this qualification.

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

No problem found for this qualification.

4. Laboratory Control Samples (LCS):

The LCSs data provides information on the accuracy of the analytical method and laboratory performance. If LCS recoveries fell outside of the acceptable limits, qualifications were applied to the associated samples and compounds as shown below.

No problem found for this qualification.

5. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the concentration of the analyte in the blank, the analytes are qualified as non-detects U.

The following analytes in the sample shown were qualified with "U" for these reasons:

A) Method blank contamination:

No problem found for this qualification.

B) Field or rinse blank contamination:
Not applicable.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

For the PCB fraction, if %RSD exceeds 20% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For opening CCV, or closing CCV that is used as an opening CCV for the next 12-hour period, if %D exceeds 15% for analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

For closing CCV, if %D exceeds 50% for all analytes and the two surrogates, qualify all associated positive results "J" and non-detects "UJ".

No problem found for this qualification.

7. COMPOUND IDENTIFICATION:

A) PCB Fraction:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract.

QUALIFIED J:

ADL312-The following aroclor samples have percent differences between analyte results in the range of 26-50%. Detected compounds are qualified J.
-B56Z5MSD

- **Aroclor-1260** B56Z5MS, B56Z5MSD

8. CONTRACT PROBLEMS NON-COMPLIANCE:

9. FIELD DOCUMENTATION: No problem.

10. OTHER PROBLEMS:
APM1-Percent moisture content of the following aroclor soil samples are greater than 70% but

less than or equal to 90%. Detected compounds are qualified J. Non detected compounds are qualified UJ.

-B5718

11. This package contains re-extracted, re-analyzed or dilution runs. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.

None.

Functional Guidelines for Evaluating Organic Analysis

CASE No.: 41746 **SDG Nos.: B56Z1**
LABORATORY: CHEM **SITE: St. CROIX ALUMINA**
ANALYSIS: BNA

DATA ASSESSMENT

The current SOP HW-35/SVOA (Revision 1) August 2007, USEPA Region II Data Validation SOP for Statement of Work SOM01.2 for evaluating organic data have been applied.

Data has been reviewed according to TDF specifications, the National Functional Guidelines Report # 3 and CCS Semi-Automated Screening Results Report.

Tentatively Identified Compounds (TICS) for BNA organic fractions are not validated. They are validated only at the specific request of the data user.

All data are valid and acceptable except those analytes rejected "R"(unusable). Due to the detection of QC problems, some analytes may have the "J" (estimated), "N" (presumptive evidence for the presence of the material), "U" (non-detect) or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All action is detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Reviewer's Signature: Shobitha Capil **Date:** October / 17 / 2011

Peer Reviewer's Signature: _____ **Date:** / /2011

Verified By: _____ **Date:** / /2011

SDG# B56Z1

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

The following action was taken in the samples and analytes shown due to excessive holding time.

No problems found for this qualification.

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

BDSS15-The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
-B56Z1, B56Z9, B5715, B5724, B5727, B5727RE, B5727RX, B5727RXRE, B5729

- **Benzo(a)pyrene-d12** B56Z1, B5729
-Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene

- **2-Chlorophenol-d4** B5727RE, B5727RX, B5727RXRE
-2-Chlorophenol

- **Pyrene-d10** B56Z1, B56Z9, B5729
-Benzo(a)anthracene, Chrysene, Fluoranthene, Pyrene

- **Fluorene-d10** B56Z1, B5727RE, B5729
-4-Bromophenyl-phenylether, 4-Chlorophenyl-phenylether, Carbazole, Dibenzofuran, Fluorene

- **2-Nitrophenol-d4** B5727, B5727RE, B5727RX, B5727RXRE
-2-Nitrophenol, Isophorone

- **2,4-Dichlorophenol-d3** B5727, B5727RE, B5727RX, B5727RXRE
-1,2,4,5-Tetrachlorobenzene, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 4-Chloro-3-methylphenol, Hexachlorobutadiene, Pentachlorophenol

- **Dimethylphthalate-d6** B56Z1, B5727, B5727RE
-1,1'-Biphenyl, Bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Caprolactam, Di-n-butylphthalate, Di-n-octylphthalate, Diethylphthalate, Dimethylphthalate

- **4-Nitrophenol-d4** B5715, B5724, B5727, B5727RE, B5727RX, B5727RXRE
-2,4-Dinitrophenol, 2-Nitroaniline, 3-Nitroaniline, 4-Nitroaniline, 4-Nitrophenol

- **4,6-Dinitro-2-methylphenol-d2** B5727, B5727RE, B5727RX, B5727RXRE
-4,6-Dinitro-2-methylphenol

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

Not applicable.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. If the concentration of the analyte is less than 5 times the blank contaminant level (10 times for common contaminants), the analytes are qualified as non-detects, "U". The following analytes in the sample shown were qualified with "U" for these reasons:

A) Method blank contamination:

BLB8-The following semi volatile samples have analyte concentrations reported less than the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified U. Non detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.
-B5715, B5718, B5719, B5720, B5724, B5727

- **Phenol** B5715, B5718, B5719, B5720, B5724, B5727

B) Field or rinse blank contamination:
Not applicable.

C) Trip blank contamination for VOA aqueous samples:
Not applicable.

D) Storage Blank associated with VOA samples only:
Not applicable.

E) Tics "R" rejected:
Tentatively Identified Compounds (TICS) for BNA organic fractions are not validated. They are validated only at the specific request of the data user.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene and for semi-volatiles Decafluorotriphenyl-phosphine (DFTPP).

If the mass calibration is in error, all associated data will be classified as unusable "R".

No problems found for this qualification.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be ≥ 0.05, and ≥ 0.01 for the twenty-five analytes with poor response in both the initial and continuing calibrations. A value < 0.05, or < 0.01 for the poor performers indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected "R".

No problems found for this qualification as per NFG/CCS report.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be < 20%, and < 40% for the poor performers. % D must be < 25%, and < 40% for the poor performers. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detects data may be qualified "R".

The following analytes in the sample shown were qualified for %RSD and %D:

BC5-The following semivolatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. Detected compounds are qualified J. Nondetected compounds are not qualified.
-B56Z1, B56Z3, B56Z4, B56Z5, B56Z8, B56Z9, B5715, B5716, B5717, B5718, B5719, B5720, B5724, B5725, B5727, B5727RE, B5727RX, B5727RXRE, B5729, SBLK08, SBLK11, SBLK13
- **Indeno(1,2,3-cd)pyrene** SSTD00564
- **Pentachlorophenol** SSTD00564, SSTD00582
-B56Z1, B56Z3, B56Z4, B56Z5, B56Z8, B56Z9, B5715, B5716, B5717, B5718, B5719, B5720, B5724, B5725, B5727, B5727RE, B5727RX, B5727RXRE, B5729, SBLK08, SBLK11, SBLK13

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than □30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction.

No problems found for this qualification.

8. COMPOUND IDENTIFICATION:

A) Semi-Volatile Fractions:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within □ 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No problems found for this qualification as per NFG/CCS report.

9. CONTRACT PROBLEMS NON-COMPLIANCE:

BNA:

Per the SOW, the analysis of B5727RE and B5727RXRE is not required.

BNA:

Initial calibration:

Initial calibration percent relative standard deviation (%RSD) is outside criteria for the following analytes:

- **Indeno(1,2,3-cd)pyrene**
- **Pentachlorophenol**

10. FIELD DOCUMENTATION:

11. OTHER PROBLEMS:

BPM1-Percent moisture content of the following semi volatile soil samples are greater than or equal to 70% but less than or equal to 90% . Detected compounds are qualified J. Non detected compounds are qualified UJ.

-B5718

12. This package contains re-extracted, reanalyzed or dilution runs. Upon reviewing the QA results, the following Form 1(s) are identified NOT to be used.

B5727RE, B5727RX, B5727RXRE

Sample Summary Report

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	ABLK01	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1260	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	ABLK03	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	ALCS01	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.2	ug/L	1.0			Yes	S3VE
Aroclor-1260	1.0	ug/L	1.0			Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	ALCS03	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.2	ug/L	1.0		J	Yes	S3VE
Aroclor-1260	1.1	ug/L	1.0		J	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B4A18	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	RMA-SW57	pH:	12	Sample Date:	09202011	Sample Time:	13:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Phenol	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	UJ	Yes	S3VE
2-Chlorophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VE
2-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Acetophenone	5.2	ug/L	1.0	U	UJ	Yes	S3VE
4-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Hexachloroethane	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Nitrobenzene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Isophorone	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Nitrophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dimethylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	UJ	Yes	S3VE
2,4-Dichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
Naphthalene	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Chloroaniline	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Hexachlorobutadiene	5.2	ug/L	1.0	U	U	Yes	S3VE
Caprolactam	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Methylnaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VE
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
1,1'-Biphenyl	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Chloronaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Dimethylphthalate	18	ug/L	1.0			Yes	S3VE
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Acenaphthylene	5.2	ug/L	1.0	U	U	Yes	S3VE
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Acenaphthene	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
Dibenzofuran	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Diethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Fluorene	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VE
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	UJ	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobenzene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Atrazine	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VE
Phenanthrene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Anthracene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Carbazole	5.2	ug/L	1.0	U	U	Yes	S3VE
Di-n-butylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Fluoranthene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Pyrene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Butylbenzylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Benzo(a)anthracene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Chrysene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Di-n-octylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	U	Yes	S3VE
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B4A18	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	RMA-SW57	pH:	1.0	Sample Date:	09202011	Sample Time:	13:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1260	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B4A18RE	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	RMA-SW57	pH:	12	Sample Date:	09202011	Sample Time:	13:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	No	S3VE
Phenol	5.2	ug/L	1.0	U	UJ	No	S3VE
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	UJ	No	S3VE
2-Chlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VE
2-Methylphenol	5.2	ug/L	1.0	U	U	No	S3VE
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	UJ	No	S3VE
Acetophenone	5.2	ug/L	1.0	U	UJ	No	S3VE
4-Methylphenol	5.2	ug/L	1.0	U	U	No	S3VE
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	UJ	No	S3VE
Hexachloroethane	5.2	ug/L	1.0	U	UJ	No	S3VE
Nitrobenzene	5.2	ug/L	1.0	U	UJ	No	S3VE
Isophorone	5.2	ug/L	1.0	U	U	No	S3VE
2-Nitrophenol	5.2	ug/L	1.0	U	U	No	S3VE
2,4-Dimethylphenol	5.2	ug/L	1.0	U	U	No	S3VE
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	UJ	No	S3VE
2,4-Dichlorophenol	5.2	ug/L	1.0	U	U	No	S3VE
Naphthalene	5.2	ug/L	1.0	U	U	No	S3VE
4-Chloroaniline	5.2	ug/L	1.0	U	UJ	No	S3VE
Hexachlorobutadiene	5.2	ug/L	1.0	U	U	No	S3VE
Caprolactam	5.2	ug/L	1.0	U	U	No	S3VE
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	U	No	S3VE
2-Methylnaphthalene	5.2	ug/L	1.0	U	U	No	S3VE
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	UJ	No	S3VE
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	U	No	S3VE
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	U	No	S3VE
1,1'-Biphenyl	5.2	ug/L	1.0	U	U	No	S3VE
2-Chloronaphthalene	5.2	ug/L	1.0	U	U	No	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VE
Dimethylphthalate	17	ug/L	1.0			No	S3VE
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	No	S3VE
Acenaphthylene	5.2	ug/L	1.0	U	U	No	S3VE
3-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VE
Acenaphthene	5.2	ug/L	1.0	U	U	No	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	No	S3VE
4-Nitrophenol	10	ug/L	1.0	U	UJ	No	S3VE
Dibenzofuran	5.2	ug/L	1.0	U	U	No	S3VE
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	No	S3VE
Diethylphthalate	5.2	ug/L	1.0	U	U	No	S3VE
Fluorene	5.2	ug/L	1.0	U	U	No	S3VE
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	U	No	S3VE
4-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	No	S3VE
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	UJ	No	S3VE
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	U	No	S3VE
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	U	No	S3VE
Hexachlorobenzene	5.2	ug/L	1.0	U	UJ	No	S3VE
Atrazine	5.2	ug/L	1.0	U	UJ	No	S3VE
Pentachlorophenol	10	ug/L	1.0	U	U	No	S3VE
Phenanthrene	5.2	ug/L	1.0	U	UJ	No	S3VE
Anthracene	5.2	ug/L	1.0	U	UJ	No	S3VE
Carbazole	5.2	ug/L	1.0	U	U	No	S3VE
Di-n-butylphthalate	5.2	ug/L	1.0	U	U	No	S3VE
Fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VE
Pyrene	5.2	ug/L	1.0	U	UJ	No	S3VE
Butylbenzylphthalate	5.2	ug/L	1.0	U	U	No	S3VE
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	UJ	No	S3VE
Benzo(a)anthracene	5.2	ug/L	1.0	U	UJ	No	S3VE
Chrysene	5.2	ug/L	1.0	U	UJ	No	S3VE
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	U	No	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	U	No	S3VE
Di-n-octylphthalate	5.2	ug/L	1.0	U	U	No	S3VE
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	U	No	S3VE
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	U	No	S3VE
Benzo(a)pyrene	5.2	ug/L	1.0	U	U	No	S3VE
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	U	No	S3VE
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	U	No	S3VE
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	U	No	S3VE
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	U	No	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B4A18RX	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	RMA-SW57	pH:	12	Sample Date:	09202011	Sample Time:	13:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	No	S3VE
Phenol	0.80	ug/L	1.0	J	J	No	S3VE
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	UJ	No	S3VE
2-Chlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VE
2-Methylphenol	5.2	ug/L	1.0	U	UJ	No	S3VE
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	UJ	No	S3VE
Acetophenone	5.2	ug/L	1.0	U	UJ	No	S3VE
4-Methylphenol	5.2	ug/L	1.0	U	UJ	No	S3VE
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	UJ	No	S3VE
Hexachloroethane	5.2	ug/L	1.0	U	UJ	No	S3VE
Nitrobenzene	5.2	ug/L	1.0	U	UJ	No	S3VE
Isophorone	5.2	ug/L	1.0	U	UJ	No	S3VE
2-Nitrophenol	5.2	ug/L	1.0	U	UJ	No	S3VE
2,4-Dimethylphenol	5.2	ug/L	1.0	U	UJ	No	S3VE
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	UJ	No	S3VE
2,4-Dichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VE
Naphthalene	5.2	ug/L	1.0	U	UJ	No	S3VE
4-Chloroaniline	5.2	ug/L	1.0	U	UJ	No	S3VE
Hexachlorobutadiene	5.2	ug/L	1.0	U	UJ	No	S3VE
Caprolactam	5.2	ug/L	1.0	U	UJ	No	S3VE
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	UJ	No	S3VE
2-Methylnaphthalene	5.2	ug/L	1.0	U	UJ	No	S3VE
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	UJ	No	S3VE
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VE
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VE
1,1'-Biphenyl	5.2	ug/L	1.0	U	UJ	No	S3VE
2-Chloronaphthalene	5.2	ug/L	1.0	U	UJ	No	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VE
Dimethylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VE
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	No	S3VE
Acenaphthylene	5.2	ug/L	1.0	U	UJ	No	S3VE
3-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VE
Acenaphthene	5.2	ug/L	1.0	U	UJ	No	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	No	S3VE
4-Nitrophenol	10	ug/L	1.0	U	UJ	No	S3VE
Dibenzofuran	5.2	ug/L	1.0	U	UJ	No	S3VE
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	No	S3VE
Diethylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VE
Fluorene	5.2	ug/L	1.0	U	UJ	No	S3VE
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	UJ	No	S3VE
4-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	UJ	No	S3VE
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	UJ	No	S3VE
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	UJ	No	S3VE
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	UJ	No	S3VE
Hexachlorobenzene	5.2	ug/L	1.0	U	UJ	No	S3VE
Atrazine	5.2	ug/L	1.0	U	UJ	No	S3VE
Pentachlorophenol	10	ug/L	1.0	U	UJ	No	S3VE
Phenanthrene	5.2	ug/L	1.0	U	UJ	No	S3VE
Anthracene	5.2	ug/L	1.0	U	UJ	No	S3VE
Carbazole	5.2	ug/L	1.0	U	UJ	No	S3VE
Di-n-butylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VE
Fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VE
Pyrene	5.2	ug/L	1.0	U	UJ	No	S3VE
Butylbenzylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VE
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	UJ	No	S3VE
Benzo(a)anthracene	5.2	ug/L	1.0	U	UJ	No	S3VE
Chrysene	5.2	ug/L	1.0	U	UJ	No	S3VE
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	UJ	No	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	UJ	No	S3VE
Di-n-octylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VE
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VE
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VE
Benzo(a)pyrene	5.2	ug/L	1.0	U	UJ	No	S3VE
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	UJ	No	S3VE
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	UJ	No	S3VE
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	UJ	No	S3VE
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98L4	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	WST-RIN02	pH:	6	Sample Date:	09162011	Sample Time:	15:21:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	0.56	ug/L	1.0	J	J	Yes	S3VE
Phenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Bis(2-chloroethyl)ether	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2-Chlorophenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2-Methylphenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Acetophenone	5.1	ug/L	1.0	U	UJ	Yes	S3VE
4-Methylphenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE
N-Nitroso-di-n-propylamine	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Hexachloroethane	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Nitrobenzene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Isophorone	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2-Nitrophenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2,4-Dimethylphenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Bis(2-chloroethoxy)methane	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2,4-Dichlorophenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Naphthalene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
4-Chloroaniline	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Hexachlorobutadiene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Caprolactam	5.1	ug/L	1.0	U	UJ	Yes	S3VE
4-Chloro-3-methylphenol	0.71	ug/L	1.0	J	J	Yes	S3VE
2-Methylnaphthalene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Hexachlorocyclopentadiene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2,4,6-Trichlorophenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2,4,5-Trichlorophenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE
1,1'-Biphenyl	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2-Chloronaphthalene	5.1	ug/L	1.0	U	UJ	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Dimethylphthalate	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2,6-Dinitrotoluene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Acenaphthylene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Acenaphthene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
Dibenzofuran	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2,4-Dinitrotoluene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Diethylphthalate	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Fluorene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
4-Chlorophenyl-phenylether	5.1	ug/L	1.0	U	UJ	Yes	S3VE
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	UJ	Yes	S3VE
N-Nitrosodiphenylamine	5.1	ug/L	1.0	U	UJ	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
4-Bromophenyl-phenylether	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Hexachlorobenzene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Atrazine	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Pentachlorophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
Phenanthrene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Anthracene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Carbazole	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Di-n-butylphthalate	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Fluoranthene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Pyrene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Butylbenzylphthalate	5.1	ug/L	1.0	U	UJ	Yes	S3VE
3,3'-Dichlorobenzidine	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Benzo(a)anthracene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Chrysene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Bis(2-ethylhexyl)	5.1	ug/L	1.0	U	UJ	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Di-n-octylphthalate	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Benzo(b)fluoranthene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Benzo(k)fluoranthene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Benzo(a)pyrene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Indeno(1,2,3-cd)pyrene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Dibenzo(a,h)anthracene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Benzo(g,h,i)perylene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2,3,4,6-Tetrachlorophenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98L4	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	WST-RIN02	pH:	1.0	Sample Date:	09162011	Sample Time:	15:21:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98L5	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	MW-RIN03	pH:	1	Sample Date:	09192011	Sample Time:	19:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98L5	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	MW-RIN03	pH:	6	Sample Date:	09192011	Sample Time:	19:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	0.62	ug/L	1.0	J	J	Yes	S3VE
Phenol	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Chlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	U	Yes	S3VE
Acetophenone	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	U	Yes	S3VE
Hexachloroethane	5.2	ug/L	1.0	U	U	Yes	S3VE
Nitrobenzene	5.2	ug/L	1.0	U	U	Yes	S3VE
Isophorone	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Nitrophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dimethylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
Naphthalene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
4-Chloroaniline	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Hexachlorobutadiene	5.2	ug/L	1.0	U	U	Yes	S3VE
Caprolactam	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Chloro-3-methylphenol	0.75	ug/L	1.0	J	J	Yes	S3VE
2-Methylnaphthalene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
1,1'-Biphenyl	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Chloronaphthalene	5.2	ug/L	1.0	U	UJ	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Dimethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VE
Acenaphthylene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Acenaphthene	5.2	ug/L	1.0	U	UJ	Yes	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
Dibenzofuran	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VE
Diethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Fluorene	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VE
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	U	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VE
Atrazine	5.2	ug/L	1.0	U	U	Yes	S3VE
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VE
Phenanthrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Anthracene	5.2	ug/L	1.0	U	U	Yes	S3VE
Carbazole	5.2	ug/L	1.0	U	U	Yes	S3VE
Di-n-butylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VE
Pyrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Butylbenzylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Benzo(a)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VE
Chrysene	5.2	ug/L	1.0	U	U	Yes	S3VE
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Di-n-octylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	U	Yes	S3VE
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98L5	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	MW-RIN03	pH:	1.0	Sample Date:	09192011	Sample Time:	19:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1260	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98L7	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	WST-RIN05	pH:	6	Sample Date:	09192011	Sample Time:	07:30:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Phenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Bis(2-chloroethyl)ether	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Chlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	5.1	ug/L	1.0	U	U	Yes	S3VE
Acetophenone	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
N-Nitroso-di-n-propylamine	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachloroethane	5.1	ug/L	1.0	U	U	Yes	S3VE
Nitrobenzene	5.1	ug/L	1.0	U	U	Yes	S3VE
Isophorone	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Nitrophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dimethylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
Bis(2-chloroethoxy)methane	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
Naphthalene	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Chloroaniline	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Hexachlorobutadiene	5.1	ug/L	1.0	U	U	Yes	S3VE
Caprolactam	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Chloro-3-methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Methylnaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachlorocyclopentadiene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2,4,6-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4,5-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
1,1'-Biphenyl	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Chloronaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Dimethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
2,6-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VE
Acenaphthylene	5.1	ug/L	1.0	U	U	Yes	S3VE
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Acenaphthene	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
Dibenzofuran	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VE
Diethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Fluorene	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Chlorophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VE
N-Nitrosodiphenylamine	5.1	ug/L	1.0	U	U	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Bromophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VE
Atrazine	5.1	ug/L	1.0	U	U	Yes	S3VE
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VE
Phenanthrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Anthracene	5.1	ug/L	1.0	U	U	Yes	S3VE
Carbazole	5.1	ug/L	1.0	U	U	Yes	S3VE
Di-n-butylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VE
Pyrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Butylbenzylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
3,3'-Dichlorobenzidine	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Benzo(a)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VE
Chrysene	5.1	ug/L	1.0	U	U	Yes	S3VE
Bis(2-ethylhexyl)	5.1	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Di-n-octylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(b)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(k)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Indeno(1,2,3-cd)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Dibenzo(a,h)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(g,h,i)perylene	5.1	ug/L	1.0	U	U	Yes	S3VE
2,3,4,6-Tetrachlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98L7	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	WST-RIN05	pH:	1.0	Sample Date:	09192011	Sample Time:	07:30:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98L9	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-TB01	pH:	1	Sample Date:	09192011	Sample Time:	10:45:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	8.8	ug/L	1.0		J	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	1.7	ug/L	1.0		J	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98M0	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-TB02	pH:	1	Sample Date:	09192011	Sample Time:	18:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	9.5	ug/L	1.0		J	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	1.6	ug/L	1.0		J	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98M1	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-TB03	pH:	1	Sample Date:	09202011	Sample Time:	18:10:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98M2	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-TB04	pH:	1	Sample Date:	09212011	Sample Time:	15:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98T0	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW01	pH:	6	Sample Date:	09202011	Sample Time:	16:41:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Phenol	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Chlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	U	Yes	S3VE
Acetophenone	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	U	Yes	S3VE
Hexachloroethane	5.2	ug/L	1.0	U	U	Yes	S3VE
Nitrobenzene	5.2	ug/L	1.0	U	U	Yes	S3VE
Isophorone	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Nitrophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dimethylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
Naphthalene	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Chloroaniline	5.2	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobutadiene	5.2	ug/L	1.0	U	U	Yes	S3VE
Caprolactam	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Methylnaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VE
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
1,1'-Biphenyl	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Chloronaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Dimethylphthalate	2.1	ug/L	1.0	J	J	Yes	S3VE
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VE
Acenaphthylene	5.2	ug/L	1.0	U	U	Yes	S3VE
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Acenaphthene	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
Dibenzofuran	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VE
Diethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Fluorene	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VE
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	U	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VE
Atrazine	5.2	ug/L	1.0	U	U	Yes	S3VE
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VE
Phenanthrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Anthracene	5.2	ug/L	1.0	U	U	Yes	S3VE
Carbazole	5.2	ug/L	1.0	U	U	Yes	S3VE
Di-n-butylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VE
Pyrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Butylbenzylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VE
Chrysene	5.2	ug/L	1.0	U	U	Yes	S3VE
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Di-n-octylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	U	Yes	S3VE
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98T0	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW01	pH:	1.0	Sample Date:	09202011	Sample Time:	16:41:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1260	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98T0	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW01	pH:	1	Sample Date:	09202011	Sample Time:	16:41:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98T0MS	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW01	pH:	1.0	Sample Date:	09202011	Sample Time:	16:41:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	4.5	ug/L	1.0			Yes	S3VE
Aroclor-1260	4.0	ug/L	1.0			Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98T0MSD	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW01	pH:	1.0	Sample Date:	09202011	Sample Time:	16:41:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	4.7	ug/L	1.0			Yes	S3VE
Aroclor-1260	4.0	ug/L	1.0			Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98T2	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW02	pH:	1	Sample Date:	09192011	Sample Time:	11:25:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98T4	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW03	pH:	1	Sample Date:	09192011	Sample Time:	17:37:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	1.2	ug/L	1.0		J	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98T6	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW04	pH:	6	Sample Date:	09192011	Sample Time:	14:06:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Phenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Bis(2-chloroethyl)ether	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Chlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	5.1	ug/L	1.0	U	U	Yes	S3VE
Acetophenone	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
N-Nitroso-di-n-propylamine	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachloroethane	5.1	ug/L	1.0	U	U	Yes	S3VE
Nitrobenzene	5.1	ug/L	1.0	U	U	Yes	S3VE
Isophorone	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Nitrophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dimethylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
Bis(2-chloroethoxy)methane	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
Naphthalene	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Chloroaniline	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobutadiene	5.1	ug/L	1.0	U	U	Yes	S3VE
Caprolactam	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Chloro-3-methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Methylnaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachlorocyclopentadiene	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4,6-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4,5-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
1,1'-Biphenyl	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Chloronaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Dimethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
2,6-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VE
Acenaphthylene	5.1	ug/L	1.0	U	U	Yes	S3VE
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Acenaphthene	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
Dibenzofuran	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VE
Diethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Fluorene	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Chlorophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VE
N-Nitrosodiphenylamine	5.1	ug/L	1.0	U	U	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Bromophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VE
Atrazine	5.1	ug/L	1.0	U	U	Yes	S3VE
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VE
Phenanthrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Anthracene	5.1	ug/L	1.0	U	U	Yes	S3VE
Carbazole	5.1	ug/L	1.0	U	U	Yes	S3VE
Di-n-butylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VE
Pyrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Butylbenzylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
3,3'-Dichlorobenzidine	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VE
Chrysene	5.1	ug/L	1.0	U	U	Yes	S3VE
Bis(2-ethylhexyl)	5.1	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Di-n-octylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(b)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(k)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Indeno(1,2,3-cd)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Dibenzo(a,h)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(g,h,i)perylene	5.1	ug/L	1.0	U	U	Yes	S3VE
2,3,4,6-Tetrachlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98T6	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW04	pH:	1.0	Sample Date:	09192011	Sample Time:	14:06:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1260	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98T6	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW04	pH:	1	Sample Date:	09192011	Sample Time:	14:06:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98T8	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW05	pH:	1	Sample Date:	09212011	Sample Time:	09:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W0	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW06	pH:	1	Sample Date:	09212011	Sample Time:	11:55:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	480	ug/L	1.0	E		Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	39	ug/L	1.0			Yes	S3VE
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methyl-2-pentanone	8.0	ug/L	1.0		J	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	18	ug/L	1.0			Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W0	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW06	pH:	1.0	Sample Date:	09212011	Sample Time:	11:55:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	4.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1221	4.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1232	4.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1242	4.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1248	4.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1254	4.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1260	4.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1262	4.0	ug/L	1.0		UJ	Yes	S3VE
Aroclor-1268	4.0	ug/L	1.0		UJ	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W0	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW06	pH:	14	Sample Date:	09212011	Sample Time:	11:55:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.1	ug/L	1.0	J	U	Yes	S3VE
Phenol	15	ug/L	1.0		J	Yes	S3VE
Bis(2-chloroethyl)ether	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Chlorophenol	0.56	ug/L	1.0	J	J	Yes	S3VE
2-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	5.1	ug/L	1.0	U	U	Yes	S3VE
Acetophenone	4.4	ug/L	1.0	J	J	Yes	S3VE
4-Methylphenol	3.3	ug/L	1.0	J	J	Yes	S3VE
N-Nitroso-di-n-propylamine	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachloroethane	5.1	ug/L	1.0	U	U	Yes	S3VE
Nitrobenzene	5.1	ug/L	1.0	U	U	Yes	S3VE
Isophorone	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Nitrophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dimethylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
Bis(2-chloroethoxy)methane	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
Naphthalene	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Chloroaniline	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Hexachlorobutadiene	5.1	ug/L	1.0	U	U	Yes	S3VE
Caprolactam	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Chloro-3-methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Methylnaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachlorocyclopentadiene	5.1	ug/L	1.0	U	UJ	Yes	S3VE
2,4,6-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4,5-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
1,1'-Biphenyl	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Chloronaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VE
Dimethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
2,6-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VE
Acenaphthylene	5.1	ug/L	1.0	U	U	Yes	S3VE
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VE
Acenaphthene	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	S3VE
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	S3VE
Dibenzofuran	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VE
Diethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Fluorene	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Chlorophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VE
N-Nitrosodiphenylamine	5.1	ug/L	1.0	U	U	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Bromophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VE
Atrazine	5.1	ug/L	1.0	U	U	Yes	S3VE
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VE
Phenanthrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Anthracene	5.1	ug/L	1.0	U	U	Yes	S3VE
Carbazole	5.1	ug/L	1.0	U	U	Yes	S3VE
Di-n-butylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VE
Pyrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Butylbenzylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
3,3'-Dichlorobenzidine	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Benzo(a)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VE
Chrysene	5.1	ug/L	1.0	U	U	Yes	S3VE
Bis(2-ethylhexyl)	5.1	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Di-n-octylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(b)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(k)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Indeno(1,2,3-cd)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Dibenzo(a,h)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(g,h,i)perylene	5.1	ug/L	1.0	U	U	Yes	S3VE
2,3,4,6-Tetrachlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W0DL	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW06	pH:	1	Sample Date:	09212011	Sample Time:	11:55:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	25	ug/L	5.0	U	U	No	S3VE
Chloromethane	25	ug/L	5.0	U	U	No	S3VE
Vinyl Chloride	25	ug/L	5.0	U	U	No	S3VE
Bromomethane	25	ug/L	5.0	U	U	No	S3VE
Chloroethane	25	ug/L	5.0	U	U	No	S3VE
Trichlorofluorom ethane	25	ug/L	5.0	U	U	No	S3VE
1,1-Dichloroethene	25	ug/L	5.0	U	U	No	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	25	ug/L	5.0	U	U	No	S3VE
Acetone	480	ug/L	5.0	D		No	S3VE
Carbon disulfide	25	ug/L	5.0	U	U	No	S3VE
Methyl acetate	25	ug/L	5.0	U	U	No	S3VE
Methylene chloride	25	ug/L	5.0	U	U	No	S3VE
trans-1,2-Dichloroethene	25	ug/L	5.0	U	U	No	S3VE
Methyl tert-Butyl ether	25	ug/L	5.0	U	U	No	S3VE
1,1-Dichloroethane	25	ug/L	5.0	U	U	No	S3VE
cis-1,2-Dichloroethene	25	ug/L	5.0	U	U	No	S3VE
2-Butanone	50	ug/L	5.0	U	U	No	S3VE
Bromochloromet hane	25	ug/L	5.0	U	U	No	S3VE
Chloroform	25	ug/L	5.0	U	U	No	S3VE
1,1,1-Trichloroethane	25	ug/L	5.0	U	U	No	S3VE
Cyclohexane	25	ug/L	5.0	U	U	No	S3VE
Carbon Tetrachloride	25	ug/L	5.0	U	U	No	S3VE
Benzene	25	ug/L	5.0	U	U	No	S3VE
1,2-Dichloroethane	25	ug/L	5.0	U	U	No	S3VE
1,4-Dioxane	500	ug/L	5.0	U	R	No	S3VE
Trichloroethene	25	ug/L	5.0	U	U	No	S3VE
Methylcyclohexa ne	25	ug/L	5.0	U	U	No	S3VE
1,2-Dichloropropane	25	ug/L	5.0	U	U	No	S3VE
Bromodichlorom	25	ug/L	5.0	U	U	No	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	25	ug/L	5.0	U	U	No	S3VE
cis-1,3-Dichloropropene	25	ug/L	5.0	U	U	No	S3VE
4-Methyl-2-pentanone	50	ug/L	5.0	U	U	No	S3VE
Toluene	25	ug/L	5.0	U	U	No	S3VE
trans-1,3-Dichloropropene	25	ug/L	5.0	U	U	No	S3VE
1,1,2-Trichloroethane	25	ug/L	5.0	U	U	No	S3VE
Tetrachloroethene	25	ug/L	5.0	U	U	No	S3VE
2-Hexanone	50	ug/L	5.0	U	U	No	S3VE
Dibromochloromethane	25	ug/L	5.0	U	U	No	S3VE
1,2-Dibromoethane	25	ug/L	5.0	U	U	No	S3VE
Chlorobenzene	25	ug/L	5.0	U	U	No	S3VE
Ethylbenzene	25	ug/L	5.0	U	U	No	S3VE
o-Xylene	25	ug/L	5.0	U	U	No	S3VE
m,p-Xylene	25	ug/L	5.0	U	U	No	S3VE
Styrene	25	ug/L	5.0	U	U	No	S3VE
Bromoform	25	ug/L	5.0	U	U	No	S3VE
Isopropylbenzene	25	ug/L	5.0	U	U	No	S3VE
1,1,2,2-Tetrachloroethane	25	ug/L	5.0	U	U	No	S3VE
1,3-Dichlorobenzene	25	ug/L	5.0	U	U	No	S3VE
1,4-Dichlorobenzene	25	ug/L	5.0	U	U	No	S3VE
1,2-Dichlorobenzene	25	ug/L	5.0	U	U	No	S3VE
1,2-Dibromo-3-chloropropane	25	ug/L	5.0	U	U	No	S3VE
1,2,4-Trichlorobenzene	25	ug/L	5.0	U	U	No	S3VE
1,2,3-Trichlorobenzene	25	ug/L	5.0	U	U	No	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W0RE	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW06	pH:	14	Sample Date:	09212011	Sample Time:	11:55:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.1	ug/L	1.0	J	U	No	S3VE
Phenol	17	ug/L	1.0		J	No	S3VE
Bis(2-chloroethyl)ether	5.1	ug/L	1.0	U	U	No	S3VE
2-Chlorophenol	0.68	ug/L	1.0	J	J	No	S3VE
2-Methylphenol	5.1	ug/L	1.0	U	U	No	S3VE
2,2'-Oxybis(1-chloropropane)	5.1	ug/L	1.0	U	U	No	S3VE
Acetophenone	4.9	ug/L	1.0	J	J	No	S3VE
4-Methylphenol	3.7	ug/L	1.0	J	J	No	S3VE
N-Nitroso-di-n-propylamine	5.1	ug/L	1.0	U	U	No	S3VE
Hexachloroethane	5.1	ug/L	1.0	U	U	No	S3VE
Nitrobenzene	5.1	ug/L	1.0	U	U	No	S3VE
Isophorone	5.1	ug/L	1.0	U	U	No	S3VE
2-Nitrophenol	5.1	ug/L	1.0	U	U	No	S3VE
2,4-Dimethylphenol	5.1	ug/L	1.0	U	U	No	S3VE
Bis(2-chloroethoxy)methane	5.1	ug/L	1.0	U	U	No	S3VE
2,4-Dichlorophenol	5.1	ug/L	1.0	U	U	No	S3VE
Naphthalene	5.1	ug/L	1.0	U	U	No	S3VE
4-Chloroaniline	5.1	ug/L	1.0	U	UJ	No	S3VE
Hexachlorobutadiene	5.1	ug/L	1.0	U	U	No	S3VE
Caprolactam	5.1	ug/L	1.0	U	U	No	S3VE
4-Chloro-3-methylphenol	5.1	ug/L	1.0	U	U	No	S3VE
2-Methylnaphthalene	5.1	ug/L	1.0	U	U	No	S3VE
Hexachlorocyclopentadiene	5.1	ug/L	1.0	U	UJ	No	S3VE
2,4,6-Trichlorophenol	5.1	ug/L	1.0	U	U	No	S3VE
2,4,5-Trichlorophenol	5.1	ug/L	1.0	U	U	No	S3VE
1,1'-Biphenyl	5.1	ug/L	1.0	U	U	No	S3VE
2-Chloronaphthalene	5.1	ug/L	1.0	U	U	No	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	No	S3VE
Dimethylphthalate	5.1	ug/L	1.0	U	U	No	S3VE
2,6-Dinitrotoluene	5.1	ug/L	1.0	U	U	No	S3VE
Acenaphthylene	5.1	ug/L	1.0	U	U	No	S3VE
3-Nitroaniline	10	ug/L	1.0	U	U	No	S3VE
Acenaphthene	5.1	ug/L	1.0	U	U	No	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	U	No	S3VE
4-Nitrophenol	10	ug/L	1.0	U	U	No	S3VE
Dibenzofuran	5.1	ug/L	1.0	U	U	No	S3VE
2,4-Dinitrotoluene	5.1	ug/L	1.0	U	U	No	S3VE
Diethylphthalate	5.1	ug/L	1.0	U	U	No	S3VE
Fluorene	5.1	ug/L	1.0	U	U	No	S3VE
4-Chlorophenyl-phenylether	5.1	ug/L	1.0	U	U	No	S3VE
4-Nitroaniline	10	ug/L	1.0	U	U	No	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	No	S3VE
N-Nitrosodiphenylamine	5.1	ug/L	1.0	U	U	No	S3VE
1,2,4,5-Tetrachlorobenzene	5.1	ug/L	1.0	U	U	No	S3VE
4-Bromophenyl-phenylether	5.1	ug/L	1.0	U	U	No	S3VE
Hexachlorobenzene	5.1	ug/L	1.0	U	U	No	S3VE
Atrazine	5.1	ug/L	1.0	U	U	No	S3VE
Pentachlorophenol	10	ug/L	1.0	U	U	No	S3VE
Phenanthrene	5.1	ug/L	1.0	U	U	No	S3VE
Anthracene	5.1	ug/L	1.0	U	U	No	S3VE
Carbazole	5.1	ug/L	1.0	U	U	No	S3VE
Di-n-butylphthalate	5.1	ug/L	1.0	U	U	No	S3VE
Fluoranthene	5.1	ug/L	1.0	U	U	No	S3VE
Pyrene	5.1	ug/L	1.0	U	U	No	S3VE
Butylbenzylphthalate	5.1	ug/L	1.0	U	U	No	S3VE
3,3'-Dichlorobenzidine	5.1	ug/L	1.0	U	UJ	No	S3VE
Benzo(a)anthracene	5.1	ug/L	1.0	U	U	No	S3VE
Chrysene	5.1	ug/L	1.0	U	U	No	S3VE
Bis(2-ethylhexyl)	5.1	ug/L	1.0	U	U	No	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.1	ug/L	1.0	U	U	No	S3VE
Di-n-octylphthalate	5.1	ug/L	1.0	U	U	No	S3VE
Benzo(b)fluoranthene	5.1	ug/L	1.0	U	U	No	S3VE
Benzo(k)fluoranthene	5.1	ug/L	1.0	U	U	No	S3VE
Benzo(a)pyrene	5.1	ug/L	1.0	U	U	No	S3VE
Indeno(1,2,3-cd)pyrene	5.1	ug/L	1.0	U	U	No	S3VE
Dibenzo(a,h)anthracene	5.1	ug/L	1.0	U	U	No	S3VE
Benzo(g,h,i)perylene	5.1	ug/L	1.0	U	U	No	S3VE
2,3,4,6-Tetrachlorophenol	5.1	ug/L	1.0	U	U	No	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W0RX	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:		pH:	1.0	Sample Date:	09212011	Sample Time:	11:55:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	4.0	ug/L	1.0		UJ	No	S3VE
Aroclor-1221	4.0	ug/L	1.0		UJ	No	S3VE
Aroclor-1232	4.0	ug/L	1.0		UJ	No	S3VE
Aroclor-1242	4.0	ug/L	1.0		UJ	No	S3VE
Aroclor-1248	4.0	ug/L	1.0		UJ	No	S3VE
Aroclor-1254	4.0	ug/L	1.0		UJ	No	S3VE
Aroclor-1260	4.0	ug/L	1.0		UJ	No	S3VE
Aroclor-1262	4.0	ug/L	1.0		UJ	No	S3VE
Aroclor-1268	4.0	ug/L	1.0		UJ	No	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W0RX	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW06	pH:	14	Sample Date:	09212011	Sample Time:	11:55:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	J	U	No	S3VE
Phenol	19	ug/L	1.0		J	No	S3VE
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	UJ	No	S3VE
2-Chlorophenol	0.64	ug/L	1.0	J	J	No	S3VE
2-Methylphenol	5.0	ug/L	1.0	U	UJ	No	S3VE
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	UJ	No	S3VE
Acetophenone	5.0	ug/L	1.0		J	No	S3VE
4-Methylphenol	4.2	ug/L	1.0	J	J	No	S3VE
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	UJ	No	S3VE
Hexachloroethane	5.0	ug/L	1.0	U	UJ	No	S3VE
Nitrobenzene	5.0	ug/L	1.0	U	UJ	No	S3VE
Isophorone	5.0	ug/L	1.0	U	UJ	No	S3VE
2-Nitrophenol	5.0	ug/L	1.0	U	UJ	No	S3VE
2,4-Dimethylphenol	5.0	ug/L	1.0	U	UJ	No	S3VE
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	UJ	No	S3VE
2,4-Dichlorophenol	5.0	ug/L	1.0	U	UJ	No	S3VE
Naphthalene	5.0	ug/L	1.0	U	UJ	No	S3VE
4-Chloroaniline	5.0	ug/L	1.0	U	UJ	No	S3VE
Hexachlorobutadiene	5.0	ug/L	1.0	U	UJ	No	S3VE
Caprolactam	5.0	ug/L	1.0	U	UJ	No	S3VE
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	UJ	No	S3VE
2-Methylnaphthalene	5.0	ug/L	1.0	U	UJ	No	S3VE
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	UJ	No	S3VE
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	UJ	No	S3VE
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	UJ	No	S3VE
1,1'-Biphenyl	5.0	ug/L	1.0	U	UJ	No	S3VE
2-Chloronaphthalene	5.0	ug/L	1.0	U	UJ	No	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VE
Dimethylphthalate	5.0	ug/L	1.0	U	UJ	No	S3VE
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	UJ	No	S3VE
Acenaphthylene	5.0	ug/L	1.0	U	UJ	No	S3VE
3-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VE
Acenaphthene	5.0	ug/L	1.0	U	UJ	No	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	No	S3VE
4-Nitrophenol	10	ug/L	1.0	U	UJ	No	S3VE
Dibenzofuran	5.0	ug/L	1.0	U	UJ	No	S3VE
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	UJ	No	S3VE
Diethylphthalate	5.0	ug/L	1.0	U	UJ	No	S3VE
Fluorene	5.0	ug/L	1.0	U	UJ	No	S3VE
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	UJ	No	S3VE
4-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	UJ	No	S3VE
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	UJ	No	S3VE
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	UJ	No	S3VE
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	UJ	No	S3VE
Hexachlorobenzene	5.0	ug/L	1.0	U	UJ	No	S3VE
Atrazine	5.0	ug/L	1.0	U	UJ	No	S3VE
Pentachlorophenol	10	ug/L	1.0	U	UJ	No	S3VE
Phenanthrene	5.0	ug/L	1.0	U	UJ	No	S3VE
Anthracene	5.0	ug/L	1.0	U	UJ	No	S3VE
Carbazole	5.0	ug/L	1.0	U	UJ	No	S3VE
Di-n-butylphthalate	5.0	ug/L	1.0	U	UJ	No	S3VE
Fluoranthene	5.0	ug/L	1.0	U	UJ	No	S3VE
Pyrene	5.0	ug/L	1.0	U	UJ	No	S3VE
Butylbenzylphthalate	5.0	ug/L	1.0	U	UJ	No	S3VE
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	UJ	No	S3VE
Benzo(a)anthracene	5.0	ug/L	1.0	U	UJ	No	S3VE
Chrysene	5.0	ug/L	1.0	U	UJ	No	S3VE
Bis(2-ethylhexyl)	5.0	ug/L	1.0	U	UJ	No	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	ug/L	1.0	U	UJ	No	S3VE
Di-n-octylphthalate	5.0	ug/L	1.0	U	UJ	No	S3VE
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	UJ	No	S3VE
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	UJ	No	S3VE
Benzo(a)pyrene	5.0	ug/L	1.0	U	UJ	No	S3VE
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	UJ	No	S3VE
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	UJ	No	S3VE
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	UJ	No	S3VE
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	UJ	No	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W2	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW07	pH:	1	Sample Date:	09192011	Sample Time:	15:51:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W4	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW08	pH:	1	Sample Date:	09202011	Sample Time:	10:22:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W6	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW09	pH:	1	Sample Date:	09202011	Sample Time:	12:30:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W8	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW10	pH:	12	Sample Date:	09202011	Sample Time:	09:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Phenol	5.1	ug/L	1.0	U	UJ	Yes	S3VE
Bis(2-chloroethyl)ether	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Chlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	5.1	ug/L	1.0	U	U	Yes	S3VE
Acetophenone	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
N-Nitroso-di-n-propylamine	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachloroethane	5.1	ug/L	1.0	U	U	Yes	S3VE
Nitrobenzene	5.1	ug/L	1.0	U	U	Yes	S3VE
Isophorone	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Nitrophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dimethylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
Bis(2-chloroethoxy)methane	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
Naphthalene	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Chloroaniline	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobutadiene	5.1	ug/L	1.0	U	U	Yes	S3VE
Caprolactam	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Chloro-3-methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Methylnaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachlorocyclopentadiene	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4,6-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4,5-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE
1,1'-Biphenyl	5.1	ug/L	1.0	U	U	Yes	S3VE
2-Chloronaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Dimethylphthalate	0.83	ug/L	1.0	J	J	Yes	S3VE
2,6-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VE
Acenaphthylene	5.1	ug/L	1.0	U	U	Yes	S3VE
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Acenaphthene	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
Dibenzofuran	5.1	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VE
Diethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Fluorene	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Chlorophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VE
N-Nitrosodiphenylamine	5.1	ug/L	1.0	U	U	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VE
4-Bromophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VE
Atrazine	5.1	ug/L	1.0	U	U	Yes	S3VE
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VE
Phenanthrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Anthracene	5.1	ug/L	1.0	U	U	Yes	S3VE
Carbazole	5.1	ug/L	1.0	U	U	Yes	S3VE
Di-n-butylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VE
Pyrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Butylbenzylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
3,3'-Dichlorobenzidine	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VE
Chrysene	5.1	ug/L	1.0	U	U	Yes	S3VE
Bis(2-ethylhexyl)	5.1	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Di-n-octylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(b)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(k)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Indeno(1,2,3-cd)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VE
Dibenzo(a,h)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VE
Benzo(g,h,i)perylene	5.1	ug/L	1.0	U	U	Yes	S3VE
2,3,4,6-Tetrachlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W8	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW10	pH:	1	Sample Date:	09202011	Sample Time:	09:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	15	ug/L	1.0			Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	1.1	ug/L	1.0		J	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	20	ug/L	1.0			Yes	S3VE
1,4-Dichlorobenzene	30	ug/L	1.0			Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98W8	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW10	pH:	1.0	Sample Date:	09202011	Sample Time:	09:00:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1260	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98X0	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW11	pH:	1.0	Sample Date:	09202011	Sample Time:	09:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1221	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1232	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1242	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1248	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1254	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1260	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1262	1.0	ug/L	1.0		U	Yes	S3VE
Aroclor-1268	1.0	ug/L	1.0		U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98X0	Method:	VOA_Low_Med	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW11	pH:	1	Sample Date:	09202011	Sample Time:	09:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluorom ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromet hane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexa ne	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	16	ug/L	1.0			Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	1.2	ug/L	1.0		J	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	19	ug/L	1.0			Yes	S3VE
1,4-Dichlorobenzene	29	ug/L	1.0			Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No:	41746	Contract:	EPW11030	SDG No:	B98L4	Lab Code:	CHEM
Sample Number:	B98X0	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	SCA-GW11	pH:	12	Sample Date:	09202011	Sample Time:	09:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Phenol	5.2	ug/L	1.0	U	UJ	Yes	S3VE
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Chlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	U	Yes	S3VE
Acetophenone	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	U	Yes	S3VE
Hexachloroethane	5.2	ug/L	1.0	U	U	Yes	S3VE
Nitrobenzene	5.2	ug/L	1.0	U	U	Yes	S3VE
Isophorone	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Nitrophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dimethylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
Naphthalene	0.45	ug/L	1.0	J	J	Yes	S3VE
4-Chloroaniline	5.2	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobutadiene	5.2	ug/L	1.0	U	U	Yes	S3VE
Caprolactam	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Methylnaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VE
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE
1,1'-Biphenyl	5.2	ug/L	1.0	U	U	Yes	S3VE
2-Chloronaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Dimethylphthalate	1.2	ug/L	1.0	J	J	Yes	S3VE
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VE
Acenaphthylene	5.2	ug/L	1.0	U	U	Yes	S3VE
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
Acenaphthene	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VE
Dibenzofuran	5.2	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VE
Diethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Fluorene	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VE
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	U	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VE
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VE
Atrazine	5.2	ug/L	1.0	U	U	Yes	S3VE
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VE
Phenanthrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Anthracene	5.2	ug/L	1.0	U	U	Yes	S3VE
Carbazole	5.2	ug/L	1.0	U	U	Yes	S3VE
Di-n-butylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VE
Pyrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Butylbenzylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VE
Chrysene	5.2	ug/L	1.0	U	U	Yes	S3VE
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Di-n-octylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VE
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VE
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	U	Yes	S3VE
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VE

Case No: 41746	Contract: EPW11030	SDG No: B98L4	Lab Code: CHEM
Sample Number: SBLK12	Method: BNA	Matrix: WATER	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	U	U	Yes	S3VE
Phenol	5.0	ug/L	1.0	U	U	Yes	S3VE
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetophenone	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VE
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	S3VE
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Isophorone	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	S3VE
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	S3VE
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	S3VE
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VE
Naphthalene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	S3VE
Caprolactam	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	S3VE
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	S3VE
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VE
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VE
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VE
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	S3VE
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	S3VE
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VE
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	S3VE
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	S3VE
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	S3VE
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VE
Fluorene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VE
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Atrazine	5.0	ug/L	1.0	U	U	Yes	S3VE
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VE
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Anthracene	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbazole	5.0	ug/L	1.0	U	U	Yes	S3VE
Di-n-butylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VE
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VE
Pyrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VE
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	S3VE
Chrysene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bis(2-ethylhexyl)	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	ug/L	1.0	U	U	Yes	S3VE
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	S3VE
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No: 41746	Contract: EPW11030	SDG No: B98L4	Lab Code: CHEM
Sample Number: SBLK15	Method: BNA	Matrix: WATER	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	U	U	Yes	S3VE
Phenol	5.0	ug/L	1.0	U	U	Yes	S3VE
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VE
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetophenone	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VE
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	S3VE
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Isophorone	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	S3VE
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	S3VE
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	S3VE
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VE
Naphthalene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	S3VE
Caprolactam	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	S3VE
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	S3VE
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VE
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VE
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VE
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	S3VE
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	S3VE
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VE
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	S3VE
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	S3VE
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	S3VE
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	S3VE
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VE
Fluorene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VE
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VE
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	S3VE
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Atrazine	5.0	ug/L	1.0	U	U	Yes	S3VE
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VE
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Anthracene	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbazole	5.0	ug/L	1.0	U	U	Yes	S3VE
Di-n-butylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VE
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VE
Pyrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VE
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	S3VE
Chrysene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bis(2-ethylhexyl)	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	ug/L	1.0	U	U	Yes	S3VE
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	S3VE
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No: 41746	Contract: EPW11030	SDG No: B98L4	Lab Code: CHEM
Sample Number: VBLK03	Method: VOA_Low_Med	Matrix: WATER	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No: 41746	Contract: EPW11030	SDG No: B98L4	Lab Code: CHEM
Sample Number: VBLK07	Method: VOA_Low_Med	Matrix: WATER	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No: 41746	Contract: EPW11030	SDG No: B98L4	Lab Code: CHEM
Sample Number: VBLK08	Method: VOA_Low_Med	Matrix: WATER	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	UJ	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Case No: 41746	Contract: EPW11030	SDG No: B98L4	Lab Code: CHEM
Sample Number: VHBLK01	Method: VOA_Low_Med	Matrix: WATER	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Vinyl Chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromomethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Trichlorofluoromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Acetone	10	ug/L	1.0	U	U	Yes	S3VE
Carbon disulfide	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl acetate	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylene chloride	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methyl tert-Butyl ether	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,2-Dichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Butanone	10	ug/L	1.0	U	U	Yes	S3VE
Bromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chloroform	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,1-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Cyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
Carbon Tetrachloride	5.0	ug/L	1.0	U	U	Yes	S3VE
Benzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dioxane	100	ug/L	1.0	U	R	Yes	S3VE
Trichloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
Methylcyclohexane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromodichlorom	5.0	ug/L	1.0	U	U	Yes	S3VE

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	ug/L	1.0	U	U	Yes	S3VE
cis-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
4-Methyl-2-pentanone	10	ug/L	1.0	U	U	Yes	S3VE
Toluene	5.0	ug/L	1.0	U	U	Yes	S3VE
trans-1,3-Dichloropropene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2-Trichloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Tetrachloroethene	5.0	ug/L	1.0	U	U	Yes	S3VE
2-Hexanone	10	ug/L	1.0	U	U	Yes	S3VE
Dibromochloromethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromoethane	5.0	ug/L	1.0	U	U	Yes	S3VE
Chlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
Ethylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
o-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
m,p-Xylene	5.0	ug/L	1.0	U	U	Yes	S3VE
Styrene	5.0	ug/L	1.0	U	U	Yes	S3VE
Bromoform	5.0	ug/L	1.0	U	U	Yes	S3VE
Isopropylbenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,1,2,2-Tetrachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,3-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,4-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2-Dibromo-3-chloropropane	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,4-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE
1,2,3-Trichlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VE

Sample Summary Report

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	ABLK01	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :	0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	33	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	ALCS01	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :	0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	40	ug/Kg	1.0			Yes	S3VEM
Aroclor-1260	41	ug/Kg	1.0			Yes	S3VEM
Aroclor-1221	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	33	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A13	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMB-WST36A	pH:	8.9	Sample Date:	09192011	Sample Time:	09:20:00
% Moisture :	34			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	260	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	39	ug/Kg	1.0	J	J	Yes	S3VEM
Bis(2-chloroethyl)ether	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	260	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	260	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	260	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	500	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	260	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	500	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	500	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	500	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	500	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	500	ug/Kg	1.0	U	UJ	Yes	S3VEM
N-Nitrosodiphenylamine	260	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	260	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	500	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	260	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	260	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A13	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMB-WST36A	pH:	8.9	Sample Date:	09192011	Sample Time:	09:20:00
% Moisture :	34			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	50	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A15	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ADP-WST42A	pH:	9.9	Sample Date:	09192011	Sample Time:	10:35:00
% Moisture :	29			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	240	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	240	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	240	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	460	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	240	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	460	ug/Kg	1.0	U	UJ	Yes	S3VEM
Acenaphthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	460	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	460	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	460	ug/Kg	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	460	ug/Kg	1.0	U	UJ	Yes	S3VEM
N-Nitrosodiphenylamine	240	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	460	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	240	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	240	ug/Kg	1.0	U	UJ	Yes	S3VEM
Pyrene	240	ug/Kg	1.0	U	UJ	Yes	S3VEM
Butylbenzylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	240	ug/Kg	1.0	U	UJ	Yes	S3VEM
Chrysene	240	ug/Kg	1.0	U	UJ	Yes	S3VEM
Bis(2-ethylhexyl)	240	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	240	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(k)fluoranthene	240	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(a)pyrene	240	ug/Kg	1.0	U	UJ	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	240	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzo(a,h)anthracene	240	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(g,h,i)perylene	240	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A15	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ADP-WST42A	pH:	9.9	Sample Date:	09192011	Sample Time:	10:35:00
% Moisture :	29			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	46	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A16	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ADP-WST41B	pH:	7.1	Sample Date:	09192011	Sample Time:	10:15:00
% Moisture :	64			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	470	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	470	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	470	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	470	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	470	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	470	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	470	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	470	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	470	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	470	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	470	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	470	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	470	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	470	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	470	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	470	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	470	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	910	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	470	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	470	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	470	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	910	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	470	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	910	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	910	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	470	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	470	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	470	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	470	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	470	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	910	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	910	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	470	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	470	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	470	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	470	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	470	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	910	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	470	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	470	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	470	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	470	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
Pyrene	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
Butylbenzylphthalate	470	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	470	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
Chrysene	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
Bis(2-ethylhexyl)	470	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	470	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	470	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(k)fluoranthene	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(a)pyrene	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzo(a,h)anthracene	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(g,h,i)perylene	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A16	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ADP-WST41B	pH:	7.1	Sample Date:	09192011	Sample Time:	10:15:00
% Moisture :	64			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	92	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	92	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	92	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	92	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	92	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	92	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	92	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	92	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	92	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A17	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ADP-WST41C	pH:	6.9	Sample Date:	09192011	Sample Time:	10:20:00
% Moisture :	66			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	97	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	97	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	97	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	97	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	97	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	97	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	97	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	97	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	97	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A17	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ADP-WST41C	pH:	6.9	Sample Date:	09192011	Sample Time:	10:20:00
% Moisture :	65			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	480	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	480	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	480	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	480	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	480	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	480	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	480	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	480	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	480	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	480	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	480	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	480	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	480	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	480	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	480	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	480	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	480	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	480	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	480	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	480	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	480	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	480	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	480	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	480	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	480	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	480	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	480	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	940	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	480	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	480	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	480	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	940	ug/Kg	1.0	U	UJ	Yes	S3VEM
Acenaphthene	480	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	940	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	940	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	480	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	480	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	480	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	480	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	480	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	940	ug/Kg	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	940	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	480	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	480	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	480	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	480	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	480	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	940	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	480	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	480	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	480	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	480	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	480	ug/Kg	1.0	U	UJ	Yes	S3VEM
Pyrene	480	ug/Kg	1.0	U	UJ	Yes	S3VEM
Butylbenzylphthalate	480	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	480	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	480	ug/Kg	1.0	U	UJ	Yes	S3VEM
Chrysene	480	ug/Kg	1.0	U	UJ	Yes	S3VEM
Bis(2-ethylhexyl)	480	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	480	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	480	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	480	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(k)fluoranthene	480	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(a)pyrene	480	ug/Kg	1.0	U	UJ	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	480	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzo(a,h)anthracene	480	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(g,h,i)perylene	480	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	480	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A20	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-S16A	pH:	8.9	Sample Date:	09212011	Sample Time:	08:10:00
% Moisture :	19			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	210	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	210	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	210	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	410	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	210	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	410	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	410	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	410	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	410	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	410	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	210	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	410	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	210	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	210	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A20	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-S16A	pH:	8.9	Sample Date:	09212011	Sample Time:	08:10:00
% Moisture :	19			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	41	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A21	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-SD57	pH:	10.6	Sample Date:	09212011	Sample Time:	10:25:00
% Moisture :	21			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	210	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	210	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	210	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	420	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	210	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	420	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	420	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	420	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	420	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	420	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	210	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	420	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	210	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	210	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A21	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-SD57	pH:	10.6	Sample Date:	09212011	Sample Time:	10:25:00
% Moisture :	21			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	42	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A22	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-SD59	pH:	10.1	Sample Date:	09212011	Sample Time:	10:55:00
% Moisture :	30			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	47	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A22	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-SD59	pH:	10.1	Sample Date:	09212011	Sample Time:	10:55:00
% Moisture :	30			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	240	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	240	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	240	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	470	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	240	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	470	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	470	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	240	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	240	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	240	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A23	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-SD62	pH:	9.8	Sample Date:	09212011	Sample Time:	11:20:00
% Moisture :	18			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	210	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	210	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	210	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	400	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	210	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	400	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	400	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	210	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	210	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	210	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A23	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-SD62	pH:	9.8	Sample Date:	09212011	Sample Time:	11:20:00
% Moisture :	18			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	40	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A24	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-SD63	pH:	10.0	Sample Date:	09212011	Sample Time:	11:30:00
% Moisture :	19			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	210	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	210	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	210	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	410	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	210	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	410	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	410	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	410	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	410	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	410	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	210	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	410	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	210	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	210	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A24	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-SD63	pH:	10.0	Sample Date:	09212011	Sample Time:	11:30:00
% Moisture :	19			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	41	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	41	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A25	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ADP-WST42B	pH:	8.9	Sample Date:	09192011	Sample Time:	10:35:00
% Moisture :	51			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	67	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	67	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	67	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	67	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	67	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	67	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	67	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	67	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	67	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B4A25	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ADP-WST42B	pH:	9.0	Sample Date:	09192011	Sample Time:	10:35:00
% Moisture :	51			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	350	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	350	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	350	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	350	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	350	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	350	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	350	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	350	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	350	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	350	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	350	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	350	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	670	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	350	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	670	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	670	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	670	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	350	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	350	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	350	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	670	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	670	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	350	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	350	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	350	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	350	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	670	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	350	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	350	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	350	ug/Kg	1.0	U	UJ	Yes	S3VEM
Pyrene	350	ug/Kg	1.0	U	UJ	Yes	S3VEM
Butylbenzylphthalate	350	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	350	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	350	ug/Kg	1.0	U	UJ	Yes	S3VEM
Chrysene	350	ug/Kg	1.0	U	UJ	Yes	S3VEM
Bis(2-ethylhexyl)	350	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	350	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	350	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	350	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(k)fluoranthene	350	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(a)pyrene	350	ug/Kg	1.0	U	UJ	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	350	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzo(a,h)anthracene	350	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(g,h,i)perylene	350	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	350	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B5722	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	UCP-SD36	pH:	8.1	Sample Date:	09152011	Sample Time:	16:05:00
% Moisture :	49			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	330	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	330	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	330	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	330	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	330	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	330	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	330	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	330	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	330	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	330	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	330	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	330	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	330	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	650	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	330	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	330	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	650	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	330	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	650	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	650	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	330	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	330	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	330	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	330	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	650	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	650	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	330	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	330	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	330	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	330	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	650	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	330	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	330	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	330	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	330	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	330	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	330	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	330	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	330	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	330	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B5722	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	UCP-SD36	pH:	8.1	Sample Date:	09152011	Sample Time:	16:05:00
% Moisture :	49			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	65	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	65	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	65	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	65	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	65	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	65	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	65	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	65	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	65	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B5723	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST01A	pH:	9.7	Sample Date:	09162011	Sample Time:	10:40:00
% Moisture :	12			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	37	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B5723	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST01A	pH:	9.7	Sample Date:	09162011	Sample Time:	10:40:00
% Moisture :	12			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	190	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	190	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	190	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	190	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	190	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	190	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	190	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	190	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	370	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	190	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	370	ug/Kg	1.0	U	UJ	Yes	S3VEM
Acenaphthene	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	370	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	370	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	370	ug/Kg	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	370	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	190	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	190	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	190	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	370	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	190	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	190	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B5723MS	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:		pH:	9.7	Sample Date:	09162011	Sample Time:	10:40:00
% Moisture :	12			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	180	ug/Kg	1.0			Yes	S3VEM
Aroclor-1260	190	ug/Kg	1.0			Yes	S3VEM
Aroclor-1221	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	37	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B5723MS	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST01A	pH:	9.7	Sample Date:	09162011	Sample Time:	10:40:00
% Moisture :	12			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	1100	ug/Kg	1.0			Yes	S3VEM
Bis(2-chloroethyl)ether	190	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	1100	ug/Kg	1.0			Yes	S3VEM
2-Methylphenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	190	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	1200	ug/Kg	1.0			Yes	S3VEM
Hexachloroethane	190	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	190	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	190	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	1400	ug/Kg	1.0			Yes	S3VEM
2-Methylnaphthalene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	190	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	190	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	370	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	190	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	370	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	1300	ug/Kg	1.0			Yes	S3VEM
2,4-Dinitrophenol	370	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	760	ug/Kg	1.0			Yes	S3VEM
Dibenzofuran	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	1500	ug/Kg	1.0			Yes	S3VEM
Diethylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	370	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	370	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	190	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	190	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	190	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	120	ug/Kg	1.0	J	J	Yes	S3VEM
Phenanthrene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	190	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	1400	ug/Kg	1.0			Yes	S3VEM
Butylbenzylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	190	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B5723MSD	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST01A	pH:	9.7	Sample Date:	09162011	Sample Time:	10:40:00
% Moisture :	12			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	840	ug/Kg	1.0			Yes	S3VEM
Bis(2-chloroethyl)ether	190	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	790	ug/Kg	1.0			Yes	S3VEM
2-Methylphenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	190	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	1100	ug/Kg	1.0			Yes	S3VEM
Hexachloroethane	190	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	190	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	190	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	840	ug/Kg	1.0			Yes	S3VEM
2-Methylnaphthalene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	190	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	190	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	370	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	190	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	370	ug/Kg	1.0	U	UJ	Yes	S3VEM
Acenaphthene	1000	ug/Kg	1.0			Yes	S3VEM
2,4-Dinitrophenol	370	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	130	ug/Kg	1.0	J	J	Yes	S3VEM
Dibenzofuran	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	1000	ug/Kg	1.0			Yes	S3VEM
Diethylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	370	ug/Kg	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	370	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	190	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	190	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	190	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	190	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	370	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	190	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	1100	ug/Kg	1.0			Yes	S3VEM
Butylbenzylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	190	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	190	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	190	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	190	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B5723MSD	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:		pH:	9.7	Sample Date:	09162011	Sample Time:	10:40:00
% Moisture :	12			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	180	ug/Kg	1.0			Yes	S3VEM
Aroclor-1260	180	ug/Kg	1.0			Yes	S3VEM
Aroclor-1254	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	37	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	37	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B5726	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST06A	pH:	10.8	Sample Date:	09162011	Sample Time:	15:45:00
% Moisture :	17			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	40	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	40	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B5726	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST06A	pH:	10.8	Sample Date:	09162011	Sample Time:	15:45:00
% Moisture :	17			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	200	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	200	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	200	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	200	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	200	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	200	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	200	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	200	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	200	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	200	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	200	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	200	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	200	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	200	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	200	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	200	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	200	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	200	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Chloro-3-methylphenol	200	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	200	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	200	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	200	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	200	ug/Kg	1.0	U	UJ	Yes	S3VEM
2-Chloronaphthalene	200	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	400	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	200	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,6-Dinitrotoluene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	200	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	400	ug/Kg	1.0	U	UJ	Yes	S3VEM
Acenaphthene	200	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	400	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	400	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	200	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	200	ug/Kg	1.0	U	UJ	Yes	S3VEM
Fluorene	200	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	200	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	400	ug/Kg	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	400	ug/Kg	1.0	U	UJ	Yes	S3VEM
N-Nitrosodiphenylamine	200	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	200	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	200	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	200	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	200	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	200	ug/Kg	1.0	U	UJ	Yes	S3VEM
Fluoranthene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	200	ug/Kg	1.0	U	UJ	Yes	S3VEM
3,3'-Dichlorobenzidine	200	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	200	ug/Kg	1.0	U	UJ	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	200	ug/Kg	1.0	U	UJ	Yes	S3VEM
Di-n-octylphthalate	200	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(b)fluoranthene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	200	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	200	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	200	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B5728	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST12A	pH:	11.1	Sample Date:	09152011	Sample Time:	11:20:00
% Moisture :	30			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	240	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	30	ug/Kg	1.0	J	J	Yes	S3VEM
Bis(2-chloroethyl)ether	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	240	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	240	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	240	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
Acenaphthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	470	ug/Kg	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	240	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	240	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	240	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B5722	Lab Code:	CHEM
Sample Number:	B5728	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST12A	pH:	11.1	Sample Date:	09152011	Sample Time:	11:20:00
% Moisture :	30			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	47	ug/Kg	1.0		U	Yes	S3VEM

Case No: 41746	Contract: EPW11030	SDG No: B5722	Lab Code: CHEM
Sample Number: SBLK13	Method: BNA	Matrix: SOIL	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	170	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	170	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	170	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	170	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	170	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	170	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	170	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	170	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	170	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM

Sample Summary Report

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	ABLK01	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	ABLK02	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	ALCS01	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.2	ug/L	1.0		J	Yes	S3VEM
Aroclor-1260	1.1	ug/L	1.0		J	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	ALCS02	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.2	ug/L	1.0		J	Yes	S3VEM
Aroclor-1260	1.1	ug/L	1.0		J	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B5721	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	UCP-SW36	pH:	8	Sample Date:	09152011	Sample Time:	16:02:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Phenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Chlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	U	Yes	S3VEM
Acetophenone	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachloroethane	5.2	ug/L	1.0	U	U	Yes	S3VEM
Nitrobenzene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Isophorone	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Nitrophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
Naphthalene	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Chloroaniline	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Caprolactam	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthylene	5.2	ug/L	1.0	U	U	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Acenaphthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Diethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Fluorene	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Atrazine	5.2	ug/L	1.0	U	U	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Phenanthrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Anthracene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Carbazole	5.2	ug/L	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Pyrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Chrysene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B5721	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	UCP-SW36	pH:	1.0	Sample Date:	09152011	Sample Time:	16:02:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98L3	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	WST-RIN01	pH:	1.0	Sample Date:	09152011	Sample Time:	18:25:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98L3	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	WST-RIN01	pH:	13	Sample Date:	09152011	Sample Time:	18:25:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	0.54	ug/L	1.0	J	J	Yes	S3VEM
Phenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Chlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	U	Yes	S3VEM
Acetophenone	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachloroethane	5.2	ug/L	1.0	U	U	Yes	S3VEM
Nitrobenzene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Isophorone	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Nitrophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
Naphthalene	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Chloroaniline	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Caprolactam	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthylene	5.2	ug/L	1.0	U	U	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Acenaphthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Diethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Fluorene	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Atrazine	5.2	ug/L	1.0	U	U	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Phenanthrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Anthracene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Carbazole	5.2	ug/L	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Pyrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Chrysene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98N2	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	MAN-SW16	pH:	1.0	Sample Date:	09122011	Sample Time:	14:30:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98N2	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	MAN-SW16	pH:	6	Sample Date:	09122011	Sample Time:	14:30:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Phenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Chlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	U	Yes	S3VEM
Acetophenone	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachloroethane	5.2	ug/L	1.0	U	U	Yes	S3VEM
Nitrobenzene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Isophorone	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Nitrophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
Naphthalene	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Chloroaniline	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Caprolactam	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthylene	5.2	ug/L	1.0	U	U	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Acenaphthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Diethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Fluorene	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Atrazine	5.2	ug/L	1.0	U	U	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Phenanthrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Anthracene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Carbazole	5.2	ug/L	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Pyrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Chrysene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98P7	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	LCP-SW31	pH:	1.0	Sample Date:	09142011	Sample Time:	10:44:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98P7	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	LCP-SW31	pH:	8	Sample Date:	09142011	Sample Time:	10:44:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.1	ug/L	1.0	U	UJ	Yes	S3VEM
Phenol	5.1	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethyl)ether	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Chlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.1	ug/L	1.0	U	U	Yes	S3VEM
Acetophenone	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachloroethane	5.1	ug/L	1.0	U	U	Yes	S3VEM
Nitrobenzene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Isophorone	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Nitrophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
Naphthalene	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Chloroaniline	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Caprolactam	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthylene	5.1	ug/L	1.0	U	U	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Acenaphthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Diethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Fluorene	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	5.1	ug/L	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Atrazine	5.1	ug/L	1.0	U	U	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Phenanthrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Anthracene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Carbazole	5.1	ug/L	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Pyrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Chrysene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	5.1	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98R1	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	RMS-SW45	pH:	12	Sample Date:	09142011	Sample Time:	18:17:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	No	S3VEM
Phenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Chlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Methylphenol	5.2	ug/L	1.0	U	U	No	S3VEM
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	UJ	No	S3VEM
Acetophenone	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Methylphenol	5.2	ug/L	1.0	U	U	No	S3VEM
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachloroethane	5.2	ug/L	1.0	U	UJ	No	S3VEM
Nitrobenzene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Isophorone	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Nitrophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dimethylphenol	5.2	ug/L	1.0	U	U	No	S3VEM
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
Naphthalene	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Chloroaniline	5.2	ug/L	1.0	U	U	No	S3VEM
Hexachlorobutadiene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Caprolactam	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Methylnaphthalene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	U	No	S3VEM
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
1,1'-Biphenyl	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Chloronaphthalene	5.2	ug/L	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
Dimethylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Acenaphthylene	5.2	ug/L	1.0	U	UJ	No	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
Acenaphthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	No	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	No	S3VEM
Dibenzofuran	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Diethylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Fluorene	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	No	S3VEM
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	UJ	No	S3VEM
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorobenzene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Atrazine	5.2	ug/L	1.0	U	UJ	No	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	UJ	No	S3VEM
Phenanthrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Anthracene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Carbazole	5.2	ug/L	1.0	U	UJ	No	S3VEM
Di-n-butylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Pyrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Butylbenzylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	U	No	S3VEM
Benzo(a)anthracene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Chrysene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Di-n-octylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(a)pyrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98R1	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	RMS-SW45	pH:	1.0	Sample Date:	09142011	Sample Time:	18:17:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98R1RE	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	RMS-SW45	pH:	12	Sample Date:	09142011	Sample Time:	18:17:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	No	S3VEM
Phenol	0.79	ug/L	1.0	J	J	No	S3VEM
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Chlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Methylphenol	5.2	ug/L	1.0	U	U	No	S3VEM
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	UJ	No	S3VEM
Acetophenone	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Methylphenol	5.2	ug/L	1.0	U	U	No	S3VEM
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachloroethane	5.2	ug/L	1.0	U	UJ	No	S3VEM
Nitrobenzene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Isophorone	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Nitrophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dimethylphenol	5.2	ug/L	1.0	U	U	No	S3VEM
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
Naphthalene	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Chloroaniline	5.2	ug/L	1.0	U	U	No	S3VEM
Hexachlorobutadiene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Caprolactam	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Methylnaphthalene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	U	No	S3VEM
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
1,1'-Biphenyl	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Chloronaphthalene	5.2	ug/L	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
Dimethylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Acenaphthylene	5.2	ug/L	1.0	U	UJ	No	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
Acenaphthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	No	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	No	S3VEM
Dibenzofuran	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Diethylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Fluorene	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	UJ	No	S3VEM
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	UJ	No	S3VEM
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorobenzene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Atrazine	5.2	ug/L	1.0	U	UJ	No	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	UJ	No	S3VEM
Phenanthrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Anthracene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Carbazole	5.2	ug/L	1.0	U	UJ	No	S3VEM
Di-n-butylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Pyrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Butylbenzylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	U	No	S3VEM
Benzo(a)anthracene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Chrysene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Di-n-octylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(a)pyrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98R1RX	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	RMS-SW45	pH:	12	Sample Date:	09142011	Sample Time:	18:17:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Phenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2-Chlorophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2-Methylphenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Acetophenone	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
4-Methylphenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Hexachloroethane	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Nitrobenzene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Isophorone	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2-Nitrophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4-Dimethylphenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4-Dichlorophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Naphthalene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
4-Chloroaniline	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Hexachlorobutadiene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Caprolactam	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2-Methylnaphthalene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
1,1'-Biphenyl	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2-Chloronaphthalene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	11	ug/L	1.0		J	Yes	S3VEM
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Acenaphthylene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Acenaphthene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Diethylphthalate	1.3	ug/L	1.0	J	J	Yes	S3VEM
Fluorene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Hexachlorobenzene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Atrazine	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
Phenanthrene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Anthracene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Carbazole	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Di-n-butylphthalate	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Fluoranthene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Pyrene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Butylbenzylphthalate	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Benzo(a)anthracene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Chrysene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	UJ	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Di-n-octylphthalate	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Benzo(a)pyrene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98R1RXRE	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	RMS-SW45	pH:	12	Sample Date:	09142011	Sample Time:	18:17:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	No	S3VEM
Phenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Chlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Methylphenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	UJ	No	S3VEM
Acetophenone	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Methylphenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachloroethane	5.2	ug/L	1.0	U	UJ	No	S3VEM
Nitrobenzene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Isophorone	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Nitrophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dimethylphenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
Naphthalene	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Chloroaniline	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorobutadiene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Caprolactam	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Methylnaphthalene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
1,1'-Biphenyl	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Chloronaphthalene	5.2	ug/L	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
Dimethylphthalate	11	ug/L	1.0		J	No	S3VEM
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Acenaphthylene	5.2	ug/L	1.0	U	UJ	No	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
Acenaphthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	No	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	No	S3VEM
Dibenzofuran	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Diethylphthalate	1.3	ug/L	1.0	J	J	No	S3VEM
Fluorene	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	UJ	No	S3VEM
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	UJ	No	S3VEM
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorobenzene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Atrazine	5.2	ug/L	1.0	U	UJ	No	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	UJ	No	S3VEM
Phenanthrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Anthracene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Carbazole	5.2	ug/L	1.0	U	UJ	No	S3VEM
Di-n-butylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Pyrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Butylbenzylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(a)anthracene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Chrysene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Di-n-octylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(a)pyrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98R6	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	ADP-SW50	pH:	12	Sample Date:	09142011	Sample Time:	12:48:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.1	ug/L	1.0	U	UJ	No	S3VEM
Phenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-chloroethyl)ether	5.1	ug/L	1.0	U	UJ	No	S3VEM
2-Chlorophenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
2-Methylphenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,2'-Oxybis(1-chloropropane)	5.1	ug/L	1.0	U	UJ	No	S3VEM
Acetophenone	5.1	ug/L	1.0	U	UJ	No	S3VEM
4-Methylphenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
N-Nitroso-di-n-propylamine	5.1	ug/L	1.0	U	UJ	No	S3VEM
Hexachloroethane	5.1	ug/L	1.0	U	UJ	No	S3VEM
Nitrobenzene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Isophorone	5.1	ug/L	1.0	U	UJ	No	S3VEM
2-Nitrophenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dimethylphenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-chloroethoxy)methane	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dichlorophenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
Naphthalene	5.1	ug/L	1.0	U	UJ	No	S3VEM
4-Chloroaniline	5.1	ug/L	1.0	U	U	No	S3VEM
Hexachlorobutadiene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Caprolactam	5.1	ug/L	1.0	U	UJ	No	S3VEM
4-Chloro-3-methylphenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
2-Methylnaphthalene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorocyclopentadiene	5.1	ug/L	1.0	U	U	No	S3VEM
2,4,6-Trichlorophenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,4,5-Trichlorophenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
1,1'-Biphenyl	5.1	ug/L	1.0	U	UJ	No	S3VEM
2-Chloronaphthalene	5.1	ug/L	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
Dimethylphthalate	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,6-Dinitrotoluene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Acenaphthylene	5.1	ug/L	1.0	U	UJ	No	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
Acenaphthene	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	No	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	No	S3VEM
Dibenzofuran	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dinitrotoluene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Diethylphthalate	5.1	ug/L	1.0	U	UJ	No	S3VEM
Fluorene	5.1	ug/L	1.0	U	UJ	No	S3VEM
4-Chlorophenyl-phenylether	5.1	ug/L	1.0	U	UJ	No	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	UJ	No	S3VEM
N-Nitrosodiphenylamine	5.1	ug/L	1.0	U	UJ	No	S3VEM
1,2,4,5-Tetrachlorobenzene	5.1	ug/L	1.0	U	UJ	No	S3VEM
4-Bromophenyl-phenylether	5.1	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorobenzene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Atrazine	5.1	ug/L	1.0	U	UJ	No	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	UJ	No	S3VEM
Phenanthrene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Anthracene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Carbazole	5.1	ug/L	1.0	U	UJ	No	S3VEM
Di-n-butylphthalate	5.1	ug/L	1.0	U	UJ	No	S3VEM
Fluoranthene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Pyrene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Butylbenzylphthalate	5.1	ug/L	1.0	U	UJ	No	S3VEM
3,3'-Dichlorobenzidine	5.1	ug/L	1.0	U	U	No	S3VEM
Benzo(a)anthracene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Chrysene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-ethylhexyl)	5.1	ug/L	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.1	ug/L	1.0	U	UJ	No	S3VEM
Di-n-octylphthalate	5.1	ug/L	1.0	U	UJ	No	S3VEM
Benzo(b)fluoranthene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Benzo(k)fluoranthene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Benzo(a)pyrene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Indeno(1,2,3-cd)pyrene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Dibenzo(a,h)anthracene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Benzo(g,h,i)perylene	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,3,4,6-Tetrachlorophenol	5.1	ug/L	1.0	U	UJ	No	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98R6	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	ADP-SW50	pH:	1.0	Sample Date:	09142011	Sample Time:	12:48:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98R6RE	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	ADP-SW50	pH:	12	Sample Date:	09142011	Sample Time:	00:48:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.1	ug/L	1.0	U	UJ	No	S3VEM
Phenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-chloroethyl)ether	5.1	ug/L	1.0	U	UJ	No	S3VEM
2-Chlorophenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
2-Methylphenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,2'-Oxybis(1-chloropropane)	5.1	ug/L	1.0	U	UJ	No	S3VEM
Acetophenone	5.1	ug/L	1.0	U	UJ	No	S3VEM
4-Methylphenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
N-Nitroso-di-n-propylamine	5.1	ug/L	1.0	U	UJ	No	S3VEM
Hexachloroethane	5.1	ug/L	1.0	U	UJ	No	S3VEM
Nitrobenzene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Isophorone	5.1	ug/L	1.0	U	UJ	No	S3VEM
2-Nitrophenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dimethylphenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-chloroethoxy)methane	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dichlorophenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
Naphthalene	5.1	ug/L	1.0	U	UJ	No	S3VEM
4-Chloroaniline	5.1	ug/L	1.0	U	U	No	S3VEM
Hexachlorobutadiene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Caprolactam	5.1	ug/L	1.0	U	UJ	No	S3VEM
4-Chloro-3-methylphenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
2-Methylnaphthalene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorocyclopentadiene	5.1	ug/L	1.0	U	U	No	S3VEM
2,4,6-Trichlorophenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,4,5-Trichlorophenol	5.1	ug/L	1.0	U	UJ	No	S3VEM
1,1'-Biphenyl	5.1	ug/L	1.0	U	UJ	No	S3VEM
2-Chloronaphthalene	5.1	ug/L	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
Dimethylphthalate	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,6-Dinitrotoluene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Acenaphthylene	5.1	ug/L	1.0	U	UJ	No	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
Acenaphthene	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	No	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	No	S3VEM
Dibenzofuran	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dinitrotoluene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Diethylphthalate	5.1	ug/L	1.0	U	UJ	No	S3VEM
Fluorene	5.1	ug/L	1.0	U	UJ	No	S3VEM
4-Chlorophenyl-phenylether	5.1	ug/L	1.0	U	UJ	No	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	UJ	No	S3VEM
N-Nitrosodiphenylamine	5.1	ug/L	1.0	U	UJ	No	S3VEM
1,2,4,5-Tetrachlorobenzene	5.1	ug/L	1.0	U	UJ	No	S3VEM
4-Bromophenyl-phenylether	5.1	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorobenzene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Atrazine	5.1	ug/L	1.0	U	UJ	No	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	UJ	No	S3VEM
Phenanthrene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Anthracene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Carbazole	5.1	ug/L	1.0	U	UJ	No	S3VEM
Di-n-butylphthalate	5.1	ug/L	1.0	U	UJ	No	S3VEM
Fluoranthene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Pyrene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Butylbenzylphthalate	5.1	ug/L	1.0	U	UJ	No	S3VEM
3,3'-Dichlorobenzidine	5.1	ug/L	1.0	U	U	No	S3VEM
Benzo(a)anthracene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Chrysene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-ethylhexyl)	5.1	ug/L	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.1	ug/L	1.0	U	UJ	No	S3VEM
Di-n-octylphthalate	5.1	ug/L	1.0	U	UJ	No	S3VEM
Benzo(b)fluoranthene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Benzo(k)fluoranthene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Benzo(a)pyrene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Indeno(1,2,3-cd)pyrene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Dibenzo(a,h)anthracene	5.1	ug/L	1.0	U	UJ	No	S3VEM
Benzo(g,h,i)perylene	5.1	ug/L	1.0	U	UJ	No	S3VEM
2,3,4,6-Tetrachlorophenol	5.1	ug/L	1.0	U	UJ	No	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98R6RX	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	ADP-SW50	pH:	12	Sample Date:	09142011	Sample Time:	00:48:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Phenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2-Chlorophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2-Methylphenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Acetophenone	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
4-Methylphenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Hexachloroethane	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Nitrobenzene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Isophorone	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2-Nitrophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4-Dimethylphenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4-Dichlorophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Naphthalene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
4-Chloroaniline	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Hexachlorobutadiene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Caprolactam	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2-Methylnaphthalene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
1,1'-Biphenyl	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2-Chloronaphthalene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	15	ug/L	1.0		J	Yes	S3VEM
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Acenaphthylene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Acenaphthene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Diethylphthalate	1.3	ug/L	1.0	J	J	Yes	S3VEM
Fluorene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Hexachlorobenzene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Atrazine	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
Phenanthrene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Anthracene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Carbazole	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Di-n-butylphthalate	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Fluoranthene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Pyrene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Butylbenzylphthalate	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Benzo(a)anthracene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Chrysene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	UJ	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Di-n-octylphthalate	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Benzo(a)pyrene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98R6RXRE	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	ADP-SW50	pH:	12	Sample Date:	09142011	Sample Time:	00:48:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	No	S3VEM
Phenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Chlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Methylphenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	UJ	No	S3VEM
Acetophenone	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Methylphenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachloroethane	5.2	ug/L	1.0	U	UJ	No	S3VEM
Nitrobenzene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Isophorone	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Nitrophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dimethylphenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
Naphthalene	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Chloroaniline	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorobutadiene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Caprolactam	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Methylnaphthalene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM
1,1'-Biphenyl	5.2	ug/L	1.0	U	UJ	No	S3VEM
2-Chloronaphthalene	5.2	ug/L	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
Dimethylphthalate	15	ug/L	1.0		J	No	S3VEM
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Acenaphthylene	5.2	ug/L	1.0	U	UJ	No	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
Acenaphthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	No	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	No	S3VEM
Dibenzofuran	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Diethylphthalate	1.4	ug/L	1.0	J	J	No	S3VEM
Fluorene	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	No	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	UJ	No	S3VEM
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	UJ	No	S3VEM
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	UJ	No	S3VEM
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	UJ	No	S3VEM
Hexachlorobenzene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Atrazine	5.2	ug/L	1.0	U	UJ	No	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	UJ	No	S3VEM
Phenanthrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Anthracene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Carbazole	5.2	ug/L	1.0	U	UJ	No	S3VEM
Di-n-butylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Pyrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Butylbenzylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(a)anthracene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Chrysene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Di-n-octylphthalate	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(a)pyrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	UJ	No	S3VEM
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	UJ	No	S3VEM
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	UJ	No	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98R9	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	BG-SW53	pH:	1.0	Sample Date:	09132011	Sample Time:	14:22:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98R9	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	BG-SW53	pH:	6	Sample Date:	09132011	Sample Time:	14:22:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.1	ug/L	1.0	U	UJ	Yes	S3VEM
Phenol	5.1	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethyl)ether	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Chlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.1	ug/L	1.0	U	U	Yes	S3VEM
Acetophenone	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachloroethane	5.1	ug/L	1.0	U	U	Yes	S3VEM
Nitrobenzene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Isophorone	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Nitrophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
Naphthalene	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Chloroaniline	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Caprolactam	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VEM
Dimethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthylene	5.1	ug/L	1.0	U	U	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Dibenzofuran	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Diethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Fluorene	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	5.1	ug/L	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Atrazine	5.1	ug/L	1.0	U	U	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Phenanthrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Anthracene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Carbazole	5.1	ug/L	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Pyrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Chrysene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	5.1	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98S1	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	BG-SW55	pH:	1.0	Sample Date:	09132011	Sample Time:	14:47:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98S1	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	BG-SW55	pH:	6	Sample Date:	09132011	Sample Time:	14:47:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Phenol	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethyl)ether	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Chlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.2	ug/L	1.0	U	U	Yes	S3VEM
Acetophenone	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachloroethane	5.2	ug/L	1.0	U	U	Yes	S3VEM
Nitrobenzene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Isophorone	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Nitrophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
Naphthalene	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Chloroaniline	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Hexachlorobutadiene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Caprolactam	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
2,4,6-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	5.2	ug/L	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	5.2	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthylene	5.2	ug/L	1.0	U	U	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Acenaphthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Diethylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Fluorene	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	5.2	ug/L	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	5.2	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Atrazine	5.2	ug/L	1.0	U	U	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Phenanthrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Anthracene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Carbazole	5.2	ug/L	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Pyrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	5.2	ug/L	1.0	U	UJ	Yes	S3VEM
Benzo(a)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Chrysene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	5.2	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	5.2	ug/L	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	5.2	ug/L	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.2	ug/L	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98S3	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	ACC-SW01	pH:	6	Sample Date:	09132011	Sample Time:	09:52:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.1	ug/L	1.0	U	UJ	Yes	S3VEM
Phenol	5.1	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethyl)ether	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Chlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.1	ug/L	1.0	U	U	Yes	S3VEM
Acetophenone	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachloroethane	5.1	ug/L	1.0	U	U	Yes	S3VEM
Nitrobenzene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Isophorone	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Nitrophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
Naphthalene	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Chloroaniline	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Caprolactam	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthylene	5.1	ug/L	1.0	U	U	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Acenaphthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Diethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Fluorene	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	5.1	ug/L	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Atrazine	5.1	ug/L	1.0	U	U	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Phenanthrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Anthracene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Carbazole	5.1	ug/L	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Pyrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Chrysene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	5.1	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98S3	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	ACC-SW01	pH:	1.0	Sample Date:	09132011	Sample Time:	09:52:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98S3MS	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	ACC-SW01	pH:	1.0	Sample Date:	09132011	Sample Time:	09:52:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	4.3	ug/L	1.0		J	Yes	S3VEM
Aroclor-1260	4.0	ug/L	1.0		J	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98S3MSD	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	ACC-SW01	pH:	1.0	Sample Date:	09132011	Sample Time:	09:52:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	4.5	ug/L	1.0		J	Yes	S3VEM
Aroclor-1260	4.1	ug/L	1.0		J	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98S9	Method:	Aroclor	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	ACC-SW07	pH:	1.0	Sample Date:	09132011	Sample Time:	11:47:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1221	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1232	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1242	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1248	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1254	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1260	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1262	1.0	ug/L	1.0		UJ	Yes	S3VEM
Aroclor-1268	1.0	ug/L	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B98N2	Lab Code:	CHEM
Sample Number:	B98S9	Method:	BNA	Matrix:	WATER	MA Number:	DEFAULT
Sample Location:	ACC-SW07	pH:	6	Sample Date:	09132011	Sample Time:	11:47:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.1	ug/L	1.0	U	UJ	Yes	S3VEM
Phenol	5.1	ug/L	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethyl)ether	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Chlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.1	ug/L	1.0	U	U	Yes	S3VEM
Acetophenone	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachloroethane	5.1	ug/L	1.0	U	U	Yes	S3VEM
Nitrobenzene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Isophorone	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Nitrophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
Naphthalene	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Chloroaniline	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Caprolactam	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	5.1	ug/L	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	5.1	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthylene	5.1	ug/L	1.0	U	U	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
Acenaphthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Diethylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Fluorene	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	5.1	ug/L	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	5.1	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Atrazine	5.1	ug/L	1.0	U	U	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Phenanthrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Anthracene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Carbazole	5.1	ug/L	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Pyrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Chrysene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	5.1	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	5.1	ug/L	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	5.1	ug/L	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.1	ug/L	1.0	U	U	Yes	S3VEM

Case No: 41746	Contract: EPW11030	SDG No: B98N2	Lab Code: CHEM
Sample Number: SBLK05	Method: BNA	Matrix: WATER	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	U	U	Yes	S3VEM
Phenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	S3VEM
Acetophenone	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	S3VEM
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VEM
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Isophorone	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
Naphthalene	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Caprolactam	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VEM
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
Fluorene	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Atrazine	5.0	ug/L	1.0	U	U	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Anthracene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbazole	5.0	ug/L	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Pyrene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Chrysene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	5.0	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM

Case No: 41746	Contract: EPW11030	SDG No: B98N2	Lab Code: CHEM
Sample Number: SBLK07	Method: BNA	Matrix: WATER	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	U	U	Yes	S3VEM
Phenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	S3VEM
Acetophenone	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	S3VEM
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VEM
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Isophorone	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
Naphthalene	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Caprolactam	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VEM
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
Fluorene	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Atrazine	5.0	ug/L	1.0	U	U	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Anthracene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbazole	5.0	ug/L	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Pyrene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Chrysene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	5.0	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM

Case No: 41746	Contract: EPW11030	SDG No: B98N2	Lab Code: CHEM
Sample Number: SBLK12	Method: BNA	Matrix: WATER	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	ug/L	1.0	U	U	Yes	S3VEM
Phenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Chlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	5.0	ug/L	1.0	U	U	Yes	S3VEM
Acetophenone	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	5.0	ug/L	1.0	U	U	Yes	S3VEM
Hexachloroethane	5.0	ug/L	1.0	U	U	Yes	S3VEM
Nitrobenzene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Isophorone	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Nitrophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
Naphthalene	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Chloroaniline	5.0	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Caprolactam	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	5.0	ug/L	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	5.0	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VEM
Dimethylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthylene	5.0	ug/L	1.0	U	U	Yes	S3VEM
3-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VEM
Acenaphthene	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	10	ug/L	1.0	U	U	Yes	S3VEM
4-Nitrophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Dibenzofuran	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Diethylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
Fluorene	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Nitroaniline	10	ug/L	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	10	ug/L	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	5.0	ug/L	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	5.0	ug/L	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Atrazine	5.0	ug/L	1.0	U	U	Yes	S3VEM
Pentachlorophenol	10	ug/L	1.0	U	U	Yes	S3VEM
Phenanthrene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Anthracene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Carbazole	5.0	ug/L	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
Fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Pyrene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Chrysene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	5.0	ug/L	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	S3VEM

Sample Summary Report

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	ABLK01	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :	0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	33	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	ABLK02	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :	0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	33	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	ALCS01	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :	0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	41	ug/Kg	1.0			Yes	S3VEM
Aroclor-1260	41	ug/Kg	1.0			Yes	S3VEM
Aroclor-1254	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	33	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	ALCS02	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :	0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	44	ug/Kg	1.0			Yes	S3VEM
Aroclor-1260	45	ug/Kg	1.0			Yes	S3VEM
Aroclor-1268	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	33	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	33	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z1	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-S01	pH:	8.6	Sample Date:	09122011	Sample Time:	10:00:00
% Moisture :	25			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	44	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z1	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-S01	pH:	8.6	Sample Date:	09122011	Sample Time:	10:00:00
% Moisture :	25			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	230	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	230	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	230	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Chloro-3-methylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
2-Chloronaphthalene	230	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	440	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,6-Dinitrotoluene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	230	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	440	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	440	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	440	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,4-Dinitrotoluene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Fluorene	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Chlorophenyl-phenylether	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitroaniline	440	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	440	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	230	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Hexachlorobenzene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	230	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	440	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Di-n-butylphthalate	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Fluoranthene	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Pyrene	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Butylbenzylphthalate	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
3,3'-Dichlorobenzidine	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Chrysene	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Bis(2-ethylhexyl)	230	ug/Kg	1.0	U	UJ	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Di-n-octylphthalate	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(b)fluoranthene	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(k)fluoranthene	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(a)pyrene	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzo(a,h)anthracene	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(g,h,i)perylene	230	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z1MS	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-S01	pH:	8.6	Sample Date:	09122011	Sample Time:	10:00:00
% Moisture :	24			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	220	ug/Kg	1.0			Yes	S3VEM
Aroclor-1260	200	ug/Kg	1.0			Yes	S3VEM
Aroclor-1221	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	43	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z1MSD	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-S01	pH:	8.6	Sample Date:	09122011	Sample Time:	10:00:00
% Moisture :	24			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	210	ug/Kg	1.0			Yes	S3VEM
Aroclor-1260	210	ug/Kg	1.0			Yes	S3VEM
Aroclor-1232	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	43	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z3	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-S05	pH:	7.8	Sample Date:	09122011	Sample Time:	13:30:00
% Moisture :	29			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	240	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	41	ug/Kg	1.0	J	J	Yes	S3VEM
Bis(2-chloroethyl)ether	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	240	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	240	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	460	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	240	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	460	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	460	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	460	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	460	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	460	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	240	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	460	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	240	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	240	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z3	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-S05	pH:	7.8	Sample Date:	09122011	Sample Time:	13:30:00
% Moisture :	29			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	46	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z4	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-S06	pH:	8.2	Sample Date:	09122011	Sample Time:	13:35:00
% Moisture :	29			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	46	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	46	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z4	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-S06	pH:	8.2	Sample Date:	09122011	Sample Time:	13:35:00
% Moisture :	29			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	17	ug/Kg	1.0	J	J	Yes	S3VEM
Phenol	38	ug/Kg	1.0	J	J	Yes	S3VEM
Bis(2-chloroethyl)ether	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	240	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	240	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	460	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	69	ug/Kg	1.0	J	J	Yes	S3VEM
2,6-Dinitrotoluene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	240	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	460	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	460	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	460	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	460	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	460	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	240	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	460	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	240	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	240	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z5	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ACC-SD01	pH:	7.7	Sample Date:	09132011	Sample Time:	09:57:00
% Moisture :	24			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	220	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	34	ug/Kg	1.0	J	J	Yes	S3VEM
Bis(2-chloroethyl)ether	220	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	220	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	220	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	220	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	220	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	220	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	220	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	220	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	220	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	220	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	220	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	220	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	220	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	220	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	220	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	220	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	220	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	220	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	220	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	220	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	220	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	220	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	430	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	220	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	220	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	430	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	220	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	430	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	430	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	220	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	220	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	220	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	220	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	430	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	430	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	220	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	220	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	220	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	220	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	430	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	220	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	220	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	220	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	220	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	220	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	220	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	220	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	220	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	220	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	220	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z5	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ACC-SD01	pH:	7.7	Sample Date:	09132011	Sample Time:	09:57:00
% Moisture :	24			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	43	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z5MS	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ACC-SD01	pH:	7.7	Sample Date:	09132011	Sample Time:	09:57:00
% Moisture :	24			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	130	ug/Kg	1.0			Yes	S3VEM
Aroclor-1260	170	ug/Kg	1.0		J	Yes	S3VEM
Aroclor-1221	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	43	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z5MSD	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ACC-SD01	pH:	7.7	Sample Date:	09132011	Sample Time:	09:57:00
% Moisture :	24			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	130	ug/Kg	1.0			Yes	S3VEM
Aroclor-1260	150	ug/Kg	1.0		J	Yes	S3VEM
Aroclor-1262	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	43	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	43	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z8	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ACC-SD07	pH:	8.6	Sample Date:	09132011	Sample Time:	11:50:00
% Moisture :	33			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	250	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	78	ug/Kg	1.0	J	J	Yes	S3VEM
Bis(2-chloroethyl)ether	250	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	250	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	250	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	250	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	250	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	250	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	250	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	250	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	250	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	250	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	250	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	250	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	250	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	250	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	250	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	250	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	250	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	250	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	250	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	250	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	250	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	250	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	250	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	250	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	250	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	490	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	80	ug/Kg	1.0	J	J	Yes	S3VEM
2,6-Dinitrotoluene	250	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	250	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	490	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	250	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	490	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	490	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	250	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	250	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	250	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	250	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	250	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	490	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	490	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	250	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	250	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	250	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	250	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	250	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	490	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	480	ug/Kg	1.0			Yes	S3VEM
Anthracene	250	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	250	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	250	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	970	ug/Kg	1.0			Yes	S3VEM
Pyrene	770	ug/Kg	1.0			Yes	S3VEM
Butylbenzylphthalate	250	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	250	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	360	ug/Kg	1.0			Yes	S3VEM
Chrysene	320	ug/Kg	1.0			Yes	S3VEM
Bis(2-ethylhexyl)	180	ug/Kg	1.0	J	J	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	180	ug/Kg	1.0	J	J	Yes	S3VEM
Di-n-octylphthalate	250	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	310	ug/Kg	1.0			Yes	S3VEM
Benzo(k)fluoranthene	91	ug/Kg	1.0	J	J	Yes	S3VEM
Benzo(a)pyrene	130	ug/Kg	1.0	J	J	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	250	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	250	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	250	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	250	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z8	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ACC-SD07	pH:	8.6	Sample Date:	09132011	Sample Time:	11:50:00
% Moisture :	33			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	49	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	49	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	49	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	49	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	49	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	49	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	49	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	49	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	49	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z9	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	MAN-SD16	pH:	7.5	Sample Date:	09122011	Sample Time:	14:35:00
% Moisture :	35			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	51	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	51	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	51	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	51	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	51	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	51	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	51	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	51	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	51	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B56Z9	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	MAN-SD16	pH:	7.5	Sample Date:	09122011	Sample Time:	14:35:00
% Moisture :	35			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	260	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	260	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	260	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	260	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	510	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	260	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	510	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	510	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	510	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	510	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	510	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	260	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	260	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	510	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	260	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Pyrene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Butylbenzylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Chrysene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Bis(2-ethylhexyl)	260	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5715	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ADP-SD50	pH:	8.0	Sample Date:	09142011	Sample Time:	12:51:00
% Moisture :	58			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	400	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	400	ug/Kg	1.0	JB	U	Yes	S3VEM
Bis(2-chloroethyl)ether	400	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	400	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	400	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	400	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	400	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	400	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	400	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	400	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	400	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	400	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	400	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	400	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	400	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	400	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	780	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	400	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	400	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	780	ug/Kg	1.0	U	UJ	Yes	S3VEM
Acenaphthene	400	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	780	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	780	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	400	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	400	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	400	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	400	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	780	ug/Kg	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	780	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	400	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	400	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	400	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	400	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	780	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	400	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	400	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	400	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	400	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	400	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	400	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	400	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	400	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	400	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	400	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5715	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	ADP-SD50	pH:	8.0	Sample Date:	09142011	Sample Time:	12:51:00
% Moisture :	58			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	78	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	78	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	78	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	78	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	78	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	78	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	78	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	78	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	78	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5716	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-SD53	pH:	8.0	Sample Date:	09132011	Sample Time:	14:25:00
% Moisture :	30			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	47	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	47	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5716	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-SD53	pH:	8.0	Sample Date:	09132011	Sample Time:	14:25:00
% Moisture :	30			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	240	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	31	ug/Kg	1.0	J	J	Yes	S3VEM
Bis(2-chloroethyl)ether	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	240	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	240	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	240	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	240	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	470	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	240	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	470	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	470	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	240	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	240	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	470	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	240	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	240	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	240	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	240	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	240	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5717	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-SD55	pH:	8.1	Sample Date:	09132011	Sample Time:	14:53:00
% Moisture :	34			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	260	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	260	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	260	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	260	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	500	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	260	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	500	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	500	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	500	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	500	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	500	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	260	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	260	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	500	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	260	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	260	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5717	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	BG-SD55	pH:	8.1	Sample Date:	09132011	Sample Time:	14:53:00
% Moisture :	34			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	50	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5718	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	LCP-SD31	pH:	6.6	Sample Date:	09142011	Sample Time:	10:50:00
% Moisture :	76			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Phenol	710	ug/Kg	1.0	JB	UJ	Yes	S3VEM
Bis(2-chloroethyl)ether	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2-Chlorophenol	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2-Methylphenol	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Acetophenone	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Methylphenol	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
N-Nitroso-di-n-propylamine	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Hexachloroethane	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Nitrobenzene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Isophorone	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2-Nitrophenol	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,4-Dimethylphenol	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Bis(2-chloroethoxy)methane	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,4-Dichlorophenol	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Naphthalene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Chloroaniline	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Hexachlorobutadiene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Caprolactam	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Chloro-3-methylphenol	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2-Methylnaphthalene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Hexachlorocyclopentadiene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,4,6-Trichlorophenol	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,4,5-Trichlorophenol	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
1,1'-Biphenyl	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2-Chloronaphthalene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	1400	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,6-Dinitrotoluene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Acenaphthylene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
3-Nitroaniline	1400	ug/Kg	1.0	U	UJ	Yes	S3VEM
Acenaphthene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,4-Dinitrophenol	1400	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	1400	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,4-Dinitrotoluene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Diethylphthalate	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Fluorene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Chlorophenyl-phenylether	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitroaniline	1400	ug/Kg	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	1400	ug/Kg	1.0	U	UJ	Yes	S3VEM
N-Nitrosodiphenylamine	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Bromophenyl-phenylether	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Hexachlorobenzene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Atrazine	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Pentachlorophenol	1400	ug/Kg	1.0	U	UJ	Yes	S3VEM
Phenanthrene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Anthracene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Carbazole	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Di-n-butylphthalate	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Fluoranthene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Pyrene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Butylbenzylphthalate	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
3,3'-Dichlorobenzidine	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(a)anthracene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Chrysene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Bis(2-ethylhexyl)	710	ug/Kg	1.0	U	UJ	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Di-n-octylphthalate	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(b)fluoranthene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(k)fluoranthene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(a)pyrene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzo(a,h)anthracene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(g,h,i)perylene	710	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	710	ug/Kg	1.0	U	UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5718	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	LCP-SD31	pH:	6.6	Sample Date:	09142011	Sample Time:	10:50:00
% Moisture :	76			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	140	ug/Kg	1.0		UJ	Yes	S3VEM
Aroclor-1221	140	ug/Kg	1.0		UJ	Yes	S3VEM
Aroclor-1232	140	ug/Kg	1.0		UJ	Yes	S3VEM
Aroclor-1242	140	ug/Kg	1.0		UJ	Yes	S3VEM
Aroclor-1248	140	ug/Kg	1.0		UJ	Yes	S3VEM
Aroclor-1254	140	ug/Kg	1.0		UJ	Yes	S3VEM
Aroclor-1260	140	ug/Kg	1.0		UJ	Yes	S3VEM
Aroclor-1262	140	ug/Kg	1.0		UJ	Yes	S3VEM
Aroclor-1268	140	ug/Kg	1.0		UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5719	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	UCP-SD35	pH:	6.8	Sample Date:	09142011	Sample Time:	17:05:00
% Moisture :	52			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	69	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	69	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	69	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	69	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	69	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	69	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	69	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	69	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	69	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5719	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	UCP-SD35	pH:	6.8	Sample Date:	09142011	Sample Time:	17:05:00
% Moisture :	52			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	350	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	350	ug/Kg	1.0	JB	U	Yes	S3VEM
Bis(2-chloroethyl)ether	350	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	350	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	350	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	350	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	350	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	350	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	350	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	350	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	350	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	350	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	350	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	350	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	690	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	350	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	690	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	690	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	690	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	350	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	350	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	350	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	690	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	690	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	350	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	350	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	350	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	350	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	690	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	350	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	350	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	350	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	350	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	350	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	350	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	350	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	350	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	350	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	350	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5720	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMS-SD45	pH:	9.8	Sample Date:	09142011	Sample Time:	18:20:00
% Moisture :	27			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	45	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	45	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	45	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	45	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	45	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	45	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	45	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	45	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	45	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5720	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMS-SD45	pH:	9.8	Sample Date:	09142011	Sample Time:	18:20:00
% Moisture :	26			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	230	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	230	ug/Kg	1.0	JB	U	Yes	S3VEM
Bis(2-chloroethyl)ether	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	230	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	230	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	230	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	450	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	230	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	450	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	450	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	450	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	450	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	450	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	230	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	230	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	450	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	230	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	230	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5724	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST01B	pH:	9.0	Sample Date:	09162011	Sample Time:	10:40:00
% Moisture :	25			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	44	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5724	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST01B	pH:	9.0	Sample Date:	09162011	Sample Time:	10:40:00
% Moisture :	25			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	230	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	230	ug/Kg	1.0	JB	U	Yes	S3VEM
Bis(2-chloroethyl)ether	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	230	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	230	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	230	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	440	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	230	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	440	ug/Kg	1.0	U	UJ	Yes	S3VEM
Acenaphthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	440	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	440	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	440	ug/Kg	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	440	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	230	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	230	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	440	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	230	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	230	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5725	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST01C	pH:	9.9	Sample Date:	09162011	Sample Time:	10:45:00
% Moisture :	25			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	230	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	230	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	230	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	230	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	230	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	440	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	230	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	440	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	440	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	440	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	440	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	440	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	230	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	230	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	230	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	230	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	440	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	230	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	230	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	230	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	230	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	230	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5725	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST01C	pH:	9.9	Sample Date:	09162011	Sample Time:	10:45:00
% Moisture :	25			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	44	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	44	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5727	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST06B	pH:	10.6	Sample Date:	09152011	Sample Time:	15:45:00
% Moisture :	20			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	210	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	210	ug/Kg	1.0	JB	U	Yes	S3VEM
Bis(2-chloroethyl)ether	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	210	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	210	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
2-Nitrophenol	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,4-Dimethylphenol	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
Naphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
Caprolactam	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Chloro-3-methylphenol	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
2-Methylnaphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,4,5-Trichlorophenol	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
1,1'-Biphenyl	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
2-Chloronaphthalene	210	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	410	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dimethylphthalate	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,6-Dinitrotoluene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	210	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	410	ug/Kg	1.0	U	UJ	Yes	S3VEM
Acenaphthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	410	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitrophenol	410	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzofuran	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
Fluorene	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	210	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	410	ug/Kg	1.0	U	UJ	Yes	S3VEM
4,6-Dinitro-2-methylphenol	410	ug/Kg	1.0	U	UJ	Yes	S3VEM
N-Nitrosodiphenylamine	210	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Bromophenyl-phenylether	210	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	410	ug/Kg	1.0	U	UJ	Yes	S3VEM
Phenanthrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	210	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
Fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
3,3'-Dichlorobenzidine	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	210	ug/Kg	1.0	U	UJ	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
Di-n-octylphthalate	210	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(b)fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	210	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	210	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	210	ug/Kg	1.0	U	UJ	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5727	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST06B	pH:	10.6	Sample Date:	09152011	Sample Time:	15:45:00
% Moisture :	21			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	42	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	42	ug/Kg	1.0		U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5727RE	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST06B	pH:	10.6	Sample Date:	09152011	Sample Time:	15:45:00
% Moisture :	20			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	210	ug/Kg	1.0	U	U	No	S3VEM
Phenol	210	ug/Kg	1.0	U	U	No	S3VEM
Bis(2-chloroethyl)ether	210	ug/Kg	1.0	U	U	No	S3VEM
2-Chlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
2-Methylphenol	210	ug/Kg	1.0	U	U	No	S3VEM
2,2'-Oxybis(1-chloropropane)	210	ug/Kg	1.0	U	U	No	S3VEM
Acetophenone	210	ug/Kg	1.0	U	U	No	S3VEM
4-Methylphenol	210	ug/Kg	1.0	U	U	No	S3VEM
N-Nitroso-di-n-propylamine	210	ug/Kg	1.0	U	U	No	S3VEM
Hexachloroethane	210	ug/Kg	1.0	U	U	No	S3VEM
Nitrobenzene	210	ug/Kg	1.0	U	U	No	S3VEM
Isophorone	210	ug/Kg	1.0	U	UJ	No	S3VEM
2-Nitrophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
2,4-Dimethylphenol	210	ug/Kg	1.0	U	U	No	S3VEM
Bis(2-chloroethoxy)methane	210	ug/Kg	1.0	U	U	No	S3VEM
2,4-Dichlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
Naphthalene	210	ug/Kg	1.0	U	U	No	S3VEM
4-Chloroaniline	210	ug/Kg	1.0	U	U	No	S3VEM
Hexachlorobutadiene	210	ug/Kg	1.0	U	UJ	No	S3VEM
Caprolactam	210	ug/Kg	1.0	U	UJ	No	S3VEM
4-Chloro-3-methylphenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
2-Methylnaphthalene	210	ug/Kg	1.0	U	U	No	S3VEM
Hexachlorocyclopentadiene	210	ug/Kg	1.0	U	U	No	S3VEM
2,4,6-Trichlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
2,4,5-Trichlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
1,1'-Biphenyl	210	ug/Kg	1.0	U	UJ	No	S3VEM
2-Chloronaphthalene	210	ug/Kg	1.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	410	ug/Kg	1.0	U	UJ	No	S3VEM
Dimethylphthalate	210	ug/Kg	1.0	U	UJ	No	S3VEM
2,6-Dinitrotoluene	210	ug/Kg	1.0	U	U	No	S3VEM
Acenaphthylene	210	ug/Kg	1.0	U	U	No	S3VEM
3-Nitroaniline	410	ug/Kg	1.0	U	UJ	No	S3VEM
Acenaphthene	210	ug/Kg	1.0	U	U	No	S3VEM
2,4-Dinitrophenol	410	ug/Kg	1.0	U	UJ	No	S3VEM
4-Nitrophenol	410	ug/Kg	1.0	U	UJ	No	S3VEM
Dibenzofuran	210	ug/Kg	1.0	U	UJ	No	S3VEM
2,4-Dinitrotoluene	210	ug/Kg	1.0	U	U	No	S3VEM
Diethylphthalate	210	ug/Kg	1.0	U	UJ	No	S3VEM
Fluorene	210	ug/Kg	1.0	U	UJ	No	S3VEM
4-Chlorophenyl-phenylether	210	ug/Kg	1.0	U	UJ	No	S3VEM
4-Nitroaniline	410	ug/Kg	1.0	U	UJ	No	S3VEM
4,6-Dinitro-2-methylphenol	410	ug/Kg	1.0	U	UJ	No	S3VEM
N-Nitrosodiphenylamine	210	ug/Kg	1.0	U	U	No	S3VEM
1,2,4,5-Tetrachlorobenzene	210	ug/Kg	1.0	U	UJ	No	S3VEM
4-Bromophenyl-phenylether	210	ug/Kg	1.0	U	UJ	No	S3VEM
Hexachlorobenzene	210	ug/Kg	1.0	U	U	No	S3VEM
Atrazine	210	ug/Kg	1.0	U	U	No	S3VEM
Pentachlorophenol	410	ug/Kg	1.0	U	UJ	No	S3VEM
Phenanthrene	210	ug/Kg	1.0	U	U	No	S3VEM
Anthracene	210	ug/Kg	1.0	U	U	No	S3VEM
Carbazole	210	ug/Kg	1.0	U	UJ	No	S3VEM
Di-n-butylphthalate	210	ug/Kg	1.0	U	UJ	No	S3VEM
Fluoranthene	210	ug/Kg	1.0	U	U	No	S3VEM
Pyrene	210	ug/Kg	1.0	U	U	No	S3VEM
Butylbenzylphthalate	210	ug/Kg	1.0	U	UJ	No	S3VEM
3,3'-Dichlorobenzidine	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(a)anthracene	210	ug/Kg	1.0	U	U	No	S3VEM
Chrysene	210	ug/Kg	1.0	U	U	No	S3VEM
Bis(2-ethylhexyl)	210	ug/Kg	1.0	U	UJ	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	210	ug/Kg	1.0	U	UJ	No	S3VEM
Di-n-octylphthalate	210	ug/Kg	1.0	U	UJ	No	S3VEM
Benzo(b)fluoranthene	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(k)fluoranthene	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(a)pyrene	210	ug/Kg	1.0	U	U	No	S3VEM
Indeno(1,2,3-cd)pyrene	210	ug/Kg	1.0	U	U	No	S3VEM
Dibenzo(a,h)anthracene	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(g,h,i)perylene	210	ug/Kg	1.0	U	U	No	S3VEM
2,3,4,6-Tetrachlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5727RX	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST06B	pH:	10.6	Sample Date:	09152011	Sample Time:	15:45:00
% Moisture :	20			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	210	ug/Kg	1.0	U	U	No	S3VEM
Phenol	210	ug/Kg	1.0	U	U	No	S3VEM
Bis(2-chloroethyl)ether	210	ug/Kg	1.0	U	U	No	S3VEM
2-Chlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
2-Methylphenol	210	ug/Kg	1.0	U	U	No	S3VEM
2,2'-Oxybis(1-chloropropane)	210	ug/Kg	1.0	U	U	No	S3VEM
Acetophenone	210	ug/Kg	1.0	U	U	No	S3VEM
4-Methylphenol	210	ug/Kg	1.0	U	U	No	S3VEM
N-Nitroso-di-n-propylamine	210	ug/Kg	1.0	U	U	No	S3VEM
Hexachloroethane	210	ug/Kg	1.0	U	U	No	S3VEM
Nitrobenzene	210	ug/Kg	1.0	U	U	No	S3VEM
Isophorone	210	ug/Kg	1.0	U	UJ	No	S3VEM
2-Nitrophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
2,4-Dimethylphenol	210	ug/Kg	1.0	U	U	No	S3VEM
Bis(2-chloroethoxy)methane	210	ug/Kg	1.0	U	U	No	S3VEM
2,4-Dichlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
Naphthalene	210	ug/Kg	1.0	U	U	No	S3VEM
4-Chloroaniline	210	ug/Kg	1.0	U	U	No	S3VEM
Hexachlorobutadiene	210	ug/Kg	1.0	U	UJ	No	S3VEM
Caprolactam	210	ug/Kg	1.0	U	U	No	S3VEM
4-Chloro-3-methylphenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
2-Methylnaphthalene	210	ug/Kg	1.0	U	U	No	S3VEM
Hexachlorocyclopentadiene	210	ug/Kg	1.0	U	U	No	S3VEM
2,4,6-Trichlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
2,4,5-Trichlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
1,1'-Biphenyl	210	ug/Kg	1.0	U	U	No	S3VEM
2-Chloronaphthalene	210	ug/Kg	1.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	410	ug/Kg	1.0	U	UJ	No	S3VEM
Dimethylphthalate	210	ug/Kg	1.0	U	U	No	S3VEM
2,6-Dinitrotoluene	210	ug/Kg	1.0	U	U	No	S3VEM
Acenaphthylene	210	ug/Kg	1.0	U	U	No	S3VEM
3-Nitroaniline	410	ug/Kg	1.0	U	UJ	No	S3VEM
Acenaphthene	210	ug/Kg	1.0	U	U	No	S3VEM
2,4-Dinitrophenol	410	ug/Kg	1.0	U	UJ	No	S3VEM
4-Nitrophenol	410	ug/Kg	1.0	U	UJ	No	S3VEM
Dibenzofuran	210	ug/Kg	1.0	U	U	No	S3VEM
2,4-Dinitrotoluene	210	ug/Kg	1.0	U	U	No	S3VEM
Diethylphthalate	210	ug/Kg	1.0	U	U	No	S3VEM
Fluorene	210	ug/Kg	1.0	U	U	No	S3VEM
4-Chlorophenyl-phenylether	210	ug/Kg	1.0	U	U	No	S3VEM
4-Nitroaniline	410	ug/Kg	1.0	U	UJ	No	S3VEM
4,6-Dinitro-2-methylphenol	410	ug/Kg	1.0	U	UJ	No	S3VEM
N-Nitrosodiphenylamine	210	ug/Kg	1.0	U	U	No	S3VEM
1,2,4,5-Tetrachlorobenzene	210	ug/Kg	1.0	U	UJ	No	S3VEM
4-Bromophenyl-phenylether	210	ug/Kg	1.0	U	U	No	S3VEM
Hexachlorobenzene	210	ug/Kg	1.0	U	U	No	S3VEM
Atrazine	210	ug/Kg	1.0	U	U	No	S3VEM
Pentachlorophenol	410	ug/Kg	1.0	U	UJ	No	S3VEM
Phenanthrene	210	ug/Kg	1.0	U	U	No	S3VEM
Anthracene	210	ug/Kg	1.0	U	U	No	S3VEM
Carbazole	210	ug/Kg	1.0	U	U	No	S3VEM
Di-n-butylphthalate	210	ug/Kg	1.0	U	U	No	S3VEM
Fluoranthene	210	ug/Kg	1.0	U	U	No	S3VEM
Pyrene	210	ug/Kg	1.0	U	U	No	S3VEM
Butylbenzylphthalate	210	ug/Kg	1.0	U	U	No	S3VEM
3,3'-Dichlorobenzidine	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(a)anthracene	210	ug/Kg	1.0	U	U	No	S3VEM
Chrysene	210	ug/Kg	1.0	U	U	No	S3VEM
Bis(2-ethylhexyl)	210	ug/Kg	1.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	210	ug/Kg	1.0	U	U	No	S3VEM
Di-n-octylphthalate	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(b)fluoranthene	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(k)fluoranthene	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(a)pyrene	210	ug/Kg	1.0	U	U	No	S3VEM
Indeno(1,2,3-cd)pyrene	210	ug/Kg	1.0	U	U	No	S3VEM
Dibenzo(a,h)anthracene	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(g,h,i)perylene	210	ug/Kg	1.0	U	U	No	S3VEM
2,3,4,6-Tetrachlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5727RXRE	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST06B	pH:	10.6	Sample Date:	09152011	Sample Time:	15:45:00
% Moisture :	20			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	210	ug/Kg	1.0	U	U	No	S3VEM
Phenol	210	ug/Kg	1.0	U	U	No	S3VEM
Bis(2-chloroethyl)ether	210	ug/Kg	1.0	U	U	No	S3VEM
2-Chlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
2-Methylphenol	210	ug/Kg	1.0	U	U	No	S3VEM
2,2'-Oxybis(1-chloropropane)	210	ug/Kg	1.0	U	U	No	S3VEM
Acetophenone	210	ug/Kg	1.0	U	U	No	S3VEM
4-Methylphenol	210	ug/Kg	1.0	U	U	No	S3VEM
N-Nitroso-di-n-propylamine	210	ug/Kg	1.0	U	U	No	S3VEM
Hexachloroethane	210	ug/Kg	1.0	U	U	No	S3VEM
Nitrobenzene	210	ug/Kg	1.0	U	U	No	S3VEM
Isophorone	210	ug/Kg	1.0	U	UJ	No	S3VEM
2-Nitrophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
2,4-Dimethylphenol	210	ug/Kg	1.0	U	U	No	S3VEM
Bis(2-chloroethoxy)methane	210	ug/Kg	1.0	U	U	No	S3VEM
2,4-Dichlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
Naphthalene	210	ug/Kg	1.0	U	U	No	S3VEM
4-Chloroaniline	210	ug/Kg	1.0	U	U	No	S3VEM
Hexachlorobutadiene	210	ug/Kg	1.0	U	UJ	No	S3VEM
Caprolactam	210	ug/Kg	1.0	U	U	No	S3VEM
4-Chloro-3-methylphenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
2-Methylnaphthalene	210	ug/Kg	1.0	U	U	No	S3VEM
Hexachlorocyclopentadiene	210	ug/Kg	1.0	U	U	No	S3VEM
2,4,6-Trichlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
2,4,5-Trichlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM
1,1'-Biphenyl	210	ug/Kg	1.0	U	U	No	S3VEM
2-Chloronaphthalene	210	ug/Kg	1.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	410	ug/Kg	1.0	U	UJ	No	S3VEM
Dimethylphthalate	210	ug/Kg	1.0	U	U	No	S3VEM
2,6-Dinitrotoluene	210	ug/Kg	1.0	U	U	No	S3VEM
Acenaphthylene	210	ug/Kg	1.0	U	U	No	S3VEM
3-Nitroaniline	410	ug/Kg	1.0	U	UJ	No	S3VEM
Acenaphthene	210	ug/Kg	1.0	U	U	No	S3VEM
2,4-Dinitrophenol	410	ug/Kg	1.0	U	UJ	No	S3VEM
4-Nitrophenol	410	ug/Kg	1.0	U	UJ	No	S3VEM
Dibenzofuran	210	ug/Kg	1.0	U	U	No	S3VEM
2,4-Dinitrotoluene	210	ug/Kg	1.0	U	U	No	S3VEM
Diethylphthalate	210	ug/Kg	1.0	U	U	No	S3VEM
Fluorene	210	ug/Kg	1.0	U	U	No	S3VEM
4-Chlorophenyl-phenylether	210	ug/Kg	1.0	U	U	No	S3VEM
4-Nitroaniline	410	ug/Kg	1.0	U	UJ	No	S3VEM
4,6-Dinitro-2-methylphenol	410	ug/Kg	1.0	U	UJ	No	S3VEM
N-Nitrosodiphenylamine	210	ug/Kg	1.0	U	U	No	S3VEM
1,2,4,5-Tetrachlorobenzene	210	ug/Kg	1.0	U	UJ	No	S3VEM
4-Bromophenyl-phenylether	210	ug/Kg	1.0	U	U	No	S3VEM
Hexachlorobenzene	210	ug/Kg	1.0	U	U	No	S3VEM
Atrazine	210	ug/Kg	1.0	U	U	No	S3VEM
Pentachlorophenol	410	ug/Kg	1.0	U	UJ	No	S3VEM
Phenanthrene	210	ug/Kg	1.0	U	U	No	S3VEM
Anthracene	210	ug/Kg	1.0	U	U	No	S3VEM
Carbazole	210	ug/Kg	1.0	U	U	No	S3VEM
Di-n-butylphthalate	210	ug/Kg	1.0	U	U	No	S3VEM
Fluoranthene	210	ug/Kg	1.0	U	U	No	S3VEM
Pyrene	210	ug/Kg	1.0	U	U	No	S3VEM
Butylbenzylphthalate	210	ug/Kg	1.0	U	U	No	S3VEM
3,3'-Dichlorobenzidine	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(a)anthracene	210	ug/Kg	1.0	U	U	No	S3VEM
Chrysene	210	ug/Kg	1.0	U	U	No	S3VEM
Bis(2-ethylhexyl)	210	ug/Kg	1.0	U	U	No	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	210	ug/Kg	1.0	U	U	No	S3VEM
Di-n-octylphthalate	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(b)fluoranthene	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(k)fluoranthene	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(a)pyrene	210	ug/Kg	1.0	U	U	No	S3VEM
Indeno(1,2,3-cd)pyrene	210	ug/Kg	1.0	U	U	No	S3VEM
Dibenzo(a,h)anthracene	210	ug/Kg	1.0	U	U	No	S3VEM
Benzo(g,h,i)perylene	210	ug/Kg	1.0	U	U	No	S3VEM
2,3,4,6-Tetrachlorophenol	210	ug/Kg	1.0	U	UJ	No	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5729	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST12B	pH:	9.5	Sample Date:	09152011	Sample Time:	15:00:00
% Moisture :	34			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	260	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	260	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	260	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	260	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	260	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	500	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	260	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	500	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	260	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	500	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	500	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,4-Dinitrotoluene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Chlorophenyl-phenylether	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
4-Nitroaniline	500	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	500	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	260	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	260	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Hexachlorobenzene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	260	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	500	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	260	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Di-n-butylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Pyrene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Butylbenzylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Chrysene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Bis(2-ethylhexyl)	260	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	260	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(k)fluoranthene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(a)pyrene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Dibenzo(a,h)anthracene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
Benzo(g,h,i)perylene	260	ug/Kg	1.0	U	UJ	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	260	ug/Kg	1.0	U	U	Yes	S3VEM

Case No:	41746	Contract:	EPW11030	SDG No:	B56Z1	Lab Code:	CHEM
Sample Number:	B5729	Method:	Aroclor	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	RMA-WST12B	pH:	9.5	Sample Date:	09152011	Sample Time:	15:00:00
% Moisture :	34			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1221	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1232	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1242	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1248	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1254	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1260	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1262	50	ug/Kg	1.0		U	Yes	S3VEM
Aroclor-1268	50	ug/Kg	1.0		U	Yes	S3VEM

Case No: 41746	Contract: EPW11030	SDG No: B56Z1	Lab Code: CHEM
Sample Number: SBLK08	Method: BNA	Matrix: SOIL	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	170	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	170	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	170	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	170	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	170	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	170	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	170	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	170	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	170	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM

Case No: 41746	Contract: EPW11030	SDG No: B56Z1	Lab Code: CHEM
Sample Number: SBLK11	Method: BNA	Matrix: SOIL	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	170	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	33	ug/Kg	1.0	J	J	Yes	S3VEM
Bis(2-chloroethyl)ether	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	170	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	170	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	170	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	170	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	170	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	170	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	170	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	170	ug/Kg	1.0	U	U	Yes	S3VEM

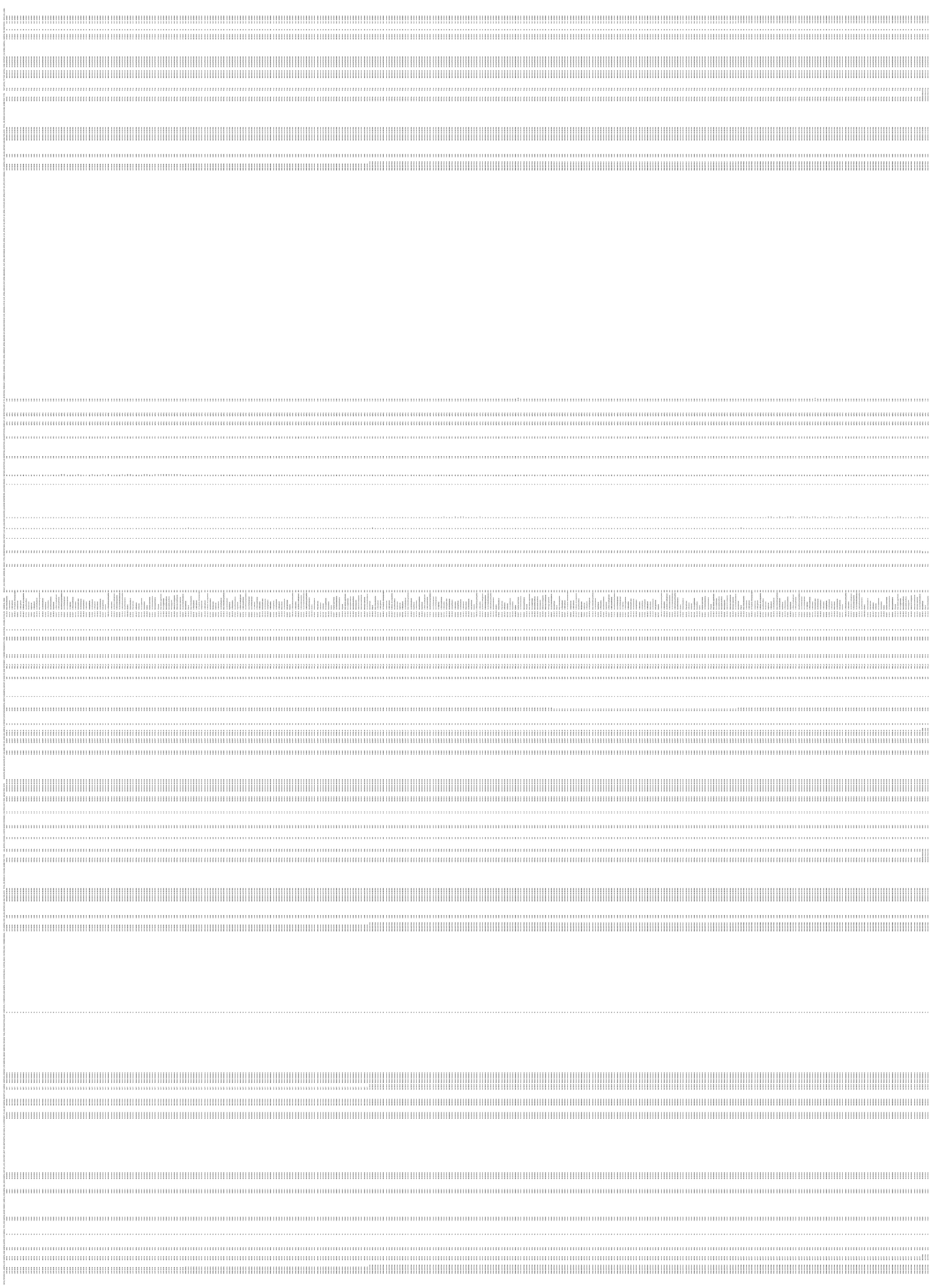
Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM

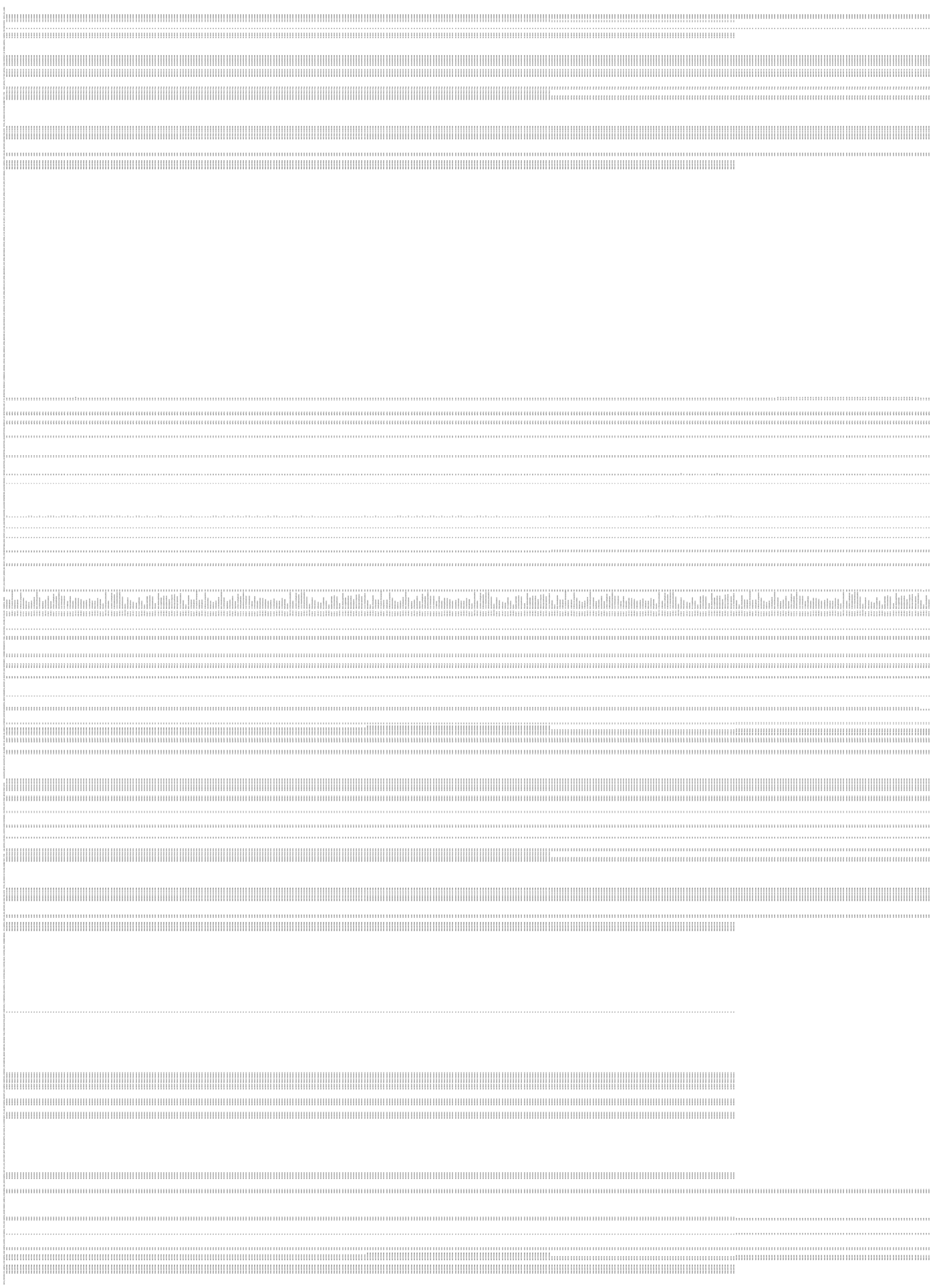
Case No: 41746	Contract: EPW11030	SDG No: B56Z1	Lab Code: CHEM
Sample Number: SBLK13	Method: BNA	Matrix: SOIL	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0		% Solids :	

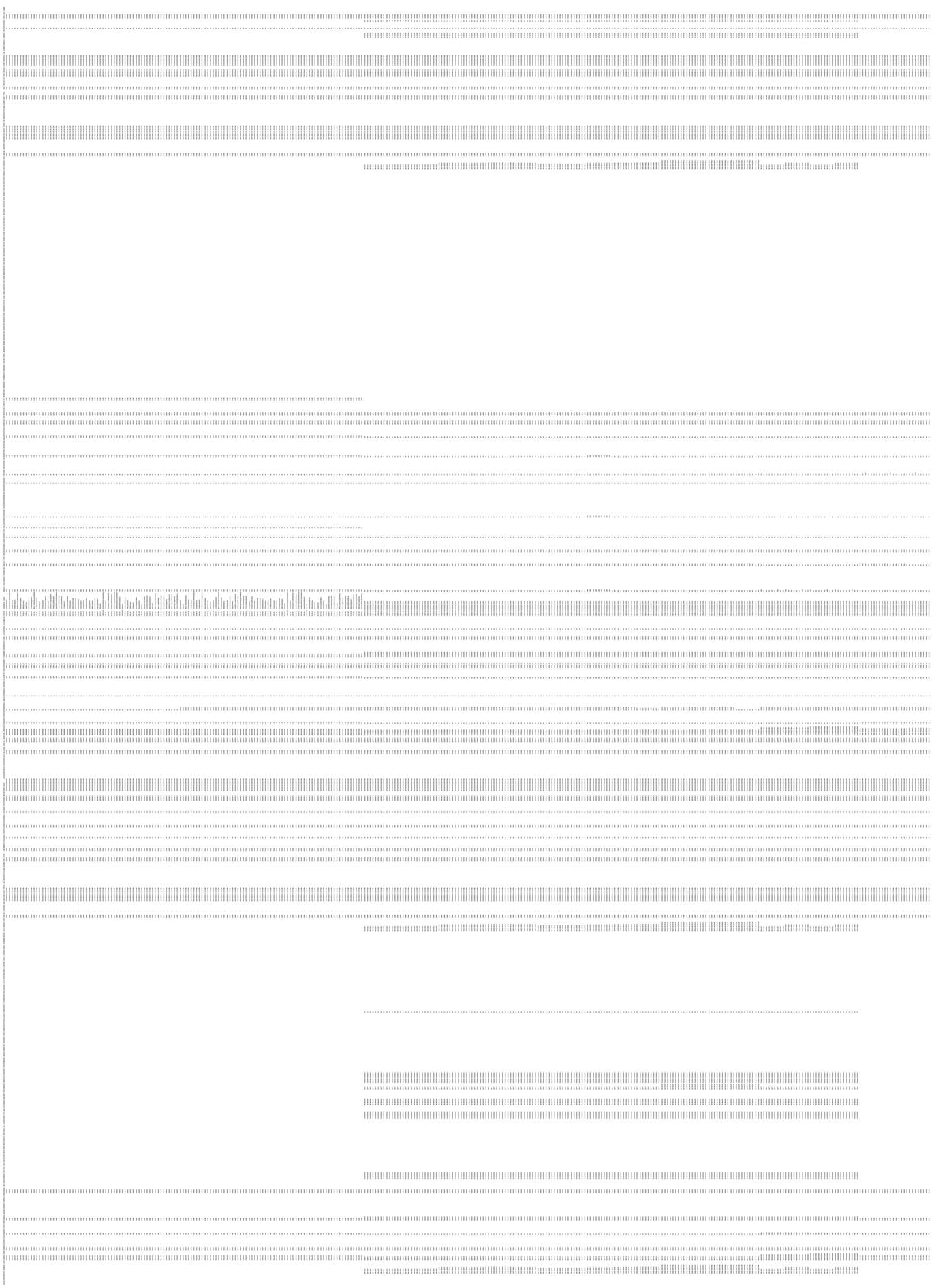
Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	170	ug/Kg	1.0	U	U	Yes	S3VEM
Phenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethyl)ether	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,2'-Oxybis(1-chloropropane)	170	ug/Kg	1.0	U	U	Yes	S3VEM
Acetophenone	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Methylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitroso-di-n-propylamine	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachloroethane	170	ug/Kg	1.0	U	U	Yes	S3VEM
Nitrobenzene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Isophorone	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Nitrophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dimethylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-chloroethoxy)methane	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dichlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
Naphthalene	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloroaniline	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobutadiene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Caprolactam	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chloro-3-methylphenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Methylnaphthalene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorocyclopentadiene	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,6-Trichlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4,5-Trichlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM
1,1'-Biphenyl	170	ug/Kg	1.0	U	U	Yes	S3VEM
2-Chloronaphthalene	170	ug/Kg	1.0	U	U	Yes	S3VEM

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
Dimethylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,6-Dinitrotoluene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthylene	170	ug/Kg	1.0	U	U	Yes	S3VEM
3-Nitroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
Acenaphthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitrophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzofuran	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,4-Dinitrotoluene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Diethylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Fluorene	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Chlorophenyl-phenylether	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Nitroaniline	330	ug/Kg	1.0	U	U	Yes	S3VEM
4,6-Dinitro-2-methylphenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
N-Nitrosodiphenylamine	170	ug/Kg	1.0	U	U	Yes	S3VEM
1,2,4,5-Tetrachlorobenzene	170	ug/Kg	1.0	U	U	Yes	S3VEM
4-Bromophenyl-phenylether	170	ug/Kg	1.0	U	U	Yes	S3VEM
Hexachlorobenzene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Atrazine	170	ug/Kg	1.0	U	U	Yes	S3VEM
Pentachlorophenol	330	ug/Kg	1.0	U	U	Yes	S3VEM
Phenanthrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Anthracene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Carbazole	170	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-butylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Fluoranthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Pyrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Butylbenzylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
3,3'-Dichlorobenzidine	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)anthracene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Chrysene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Bis(2-ethylhexyl)	170	ug/Kg	1.0	U	U	Yes	S3VEM

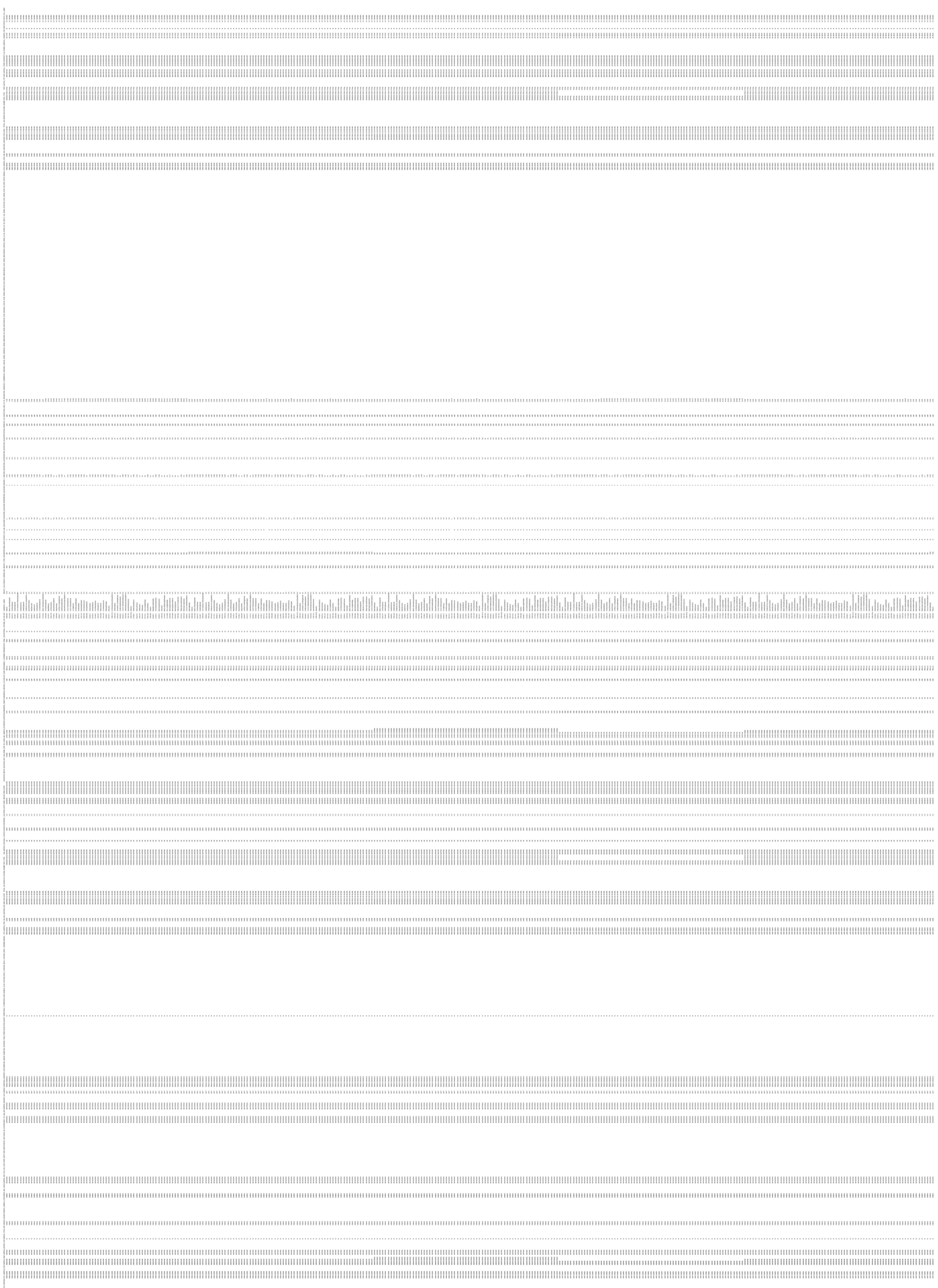
Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Di-n-octylphthalate	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(b)fluoranthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(k)fluoranthene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(a)pyrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Indeno(1,2,3-cd)pyrene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Dibenzo(a,h)anthracene	170	ug/Kg	1.0	U	U	Yes	S3VEM
Benzo(g,h,i)perylene	170	ug/Kg	1.0	U	U	Yes	S3VEM
2,3,4,6-Tetrachlorophenol	170	ug/Kg	1.0	U	U	Yes	S3VEM

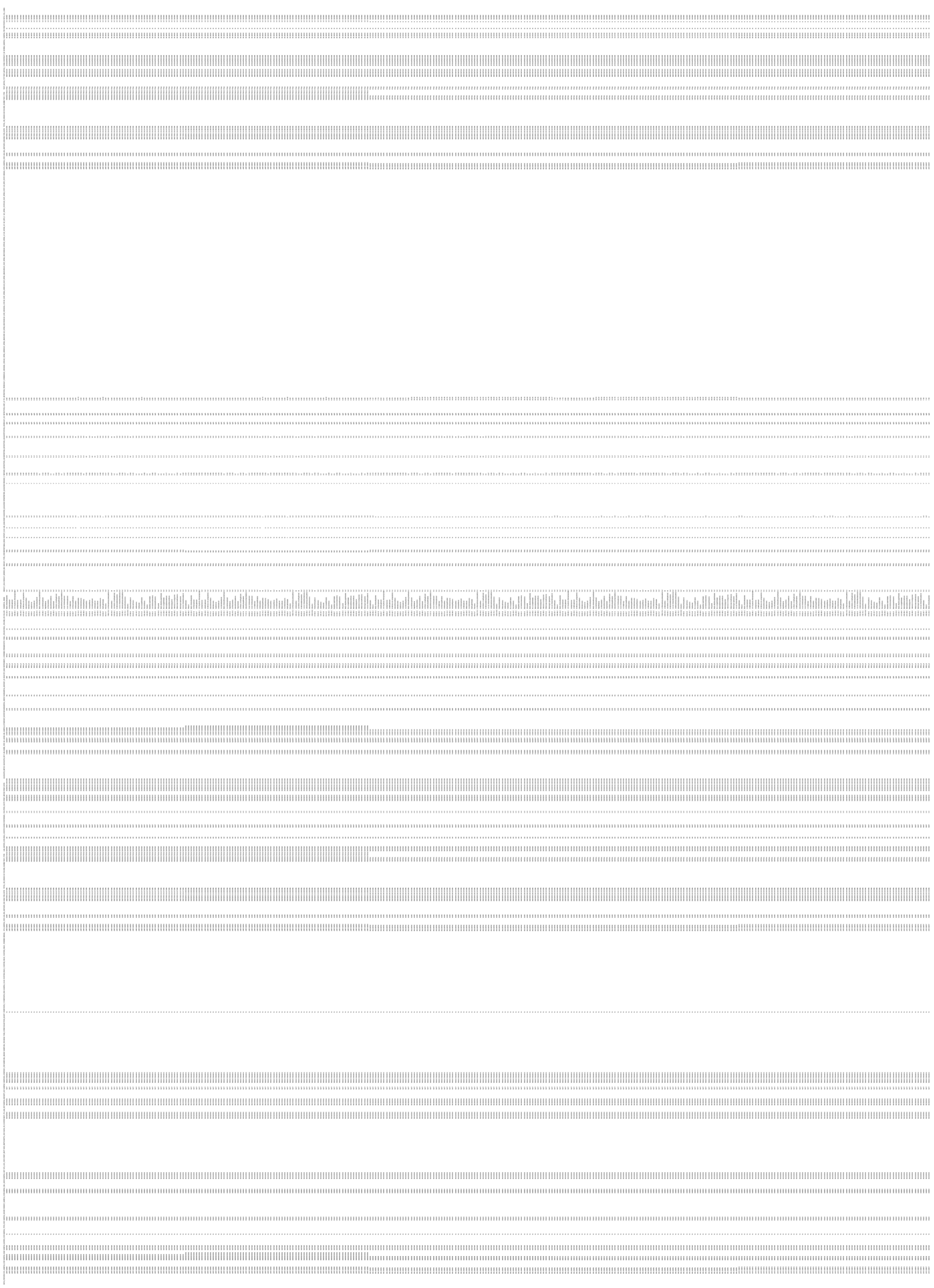


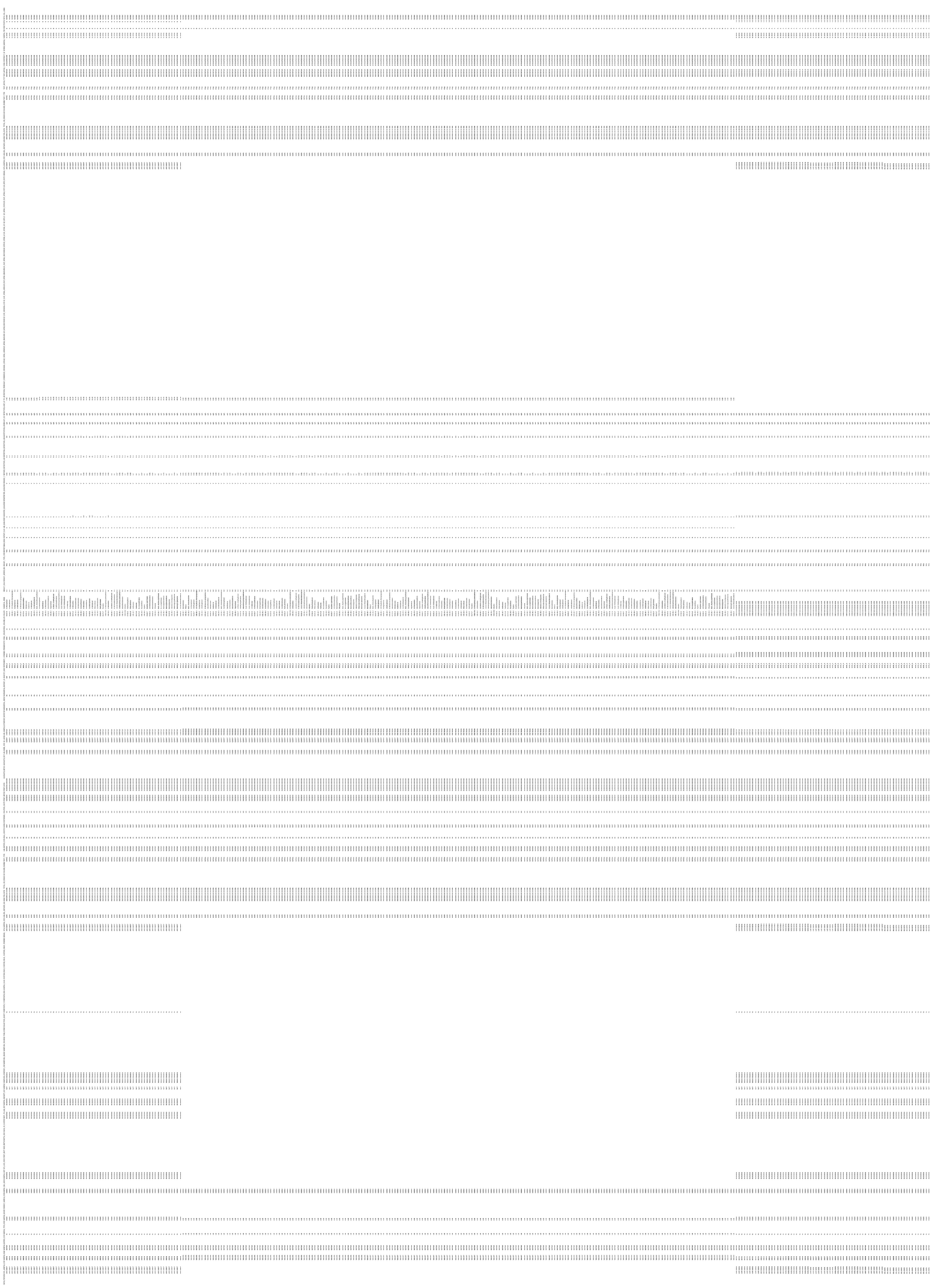


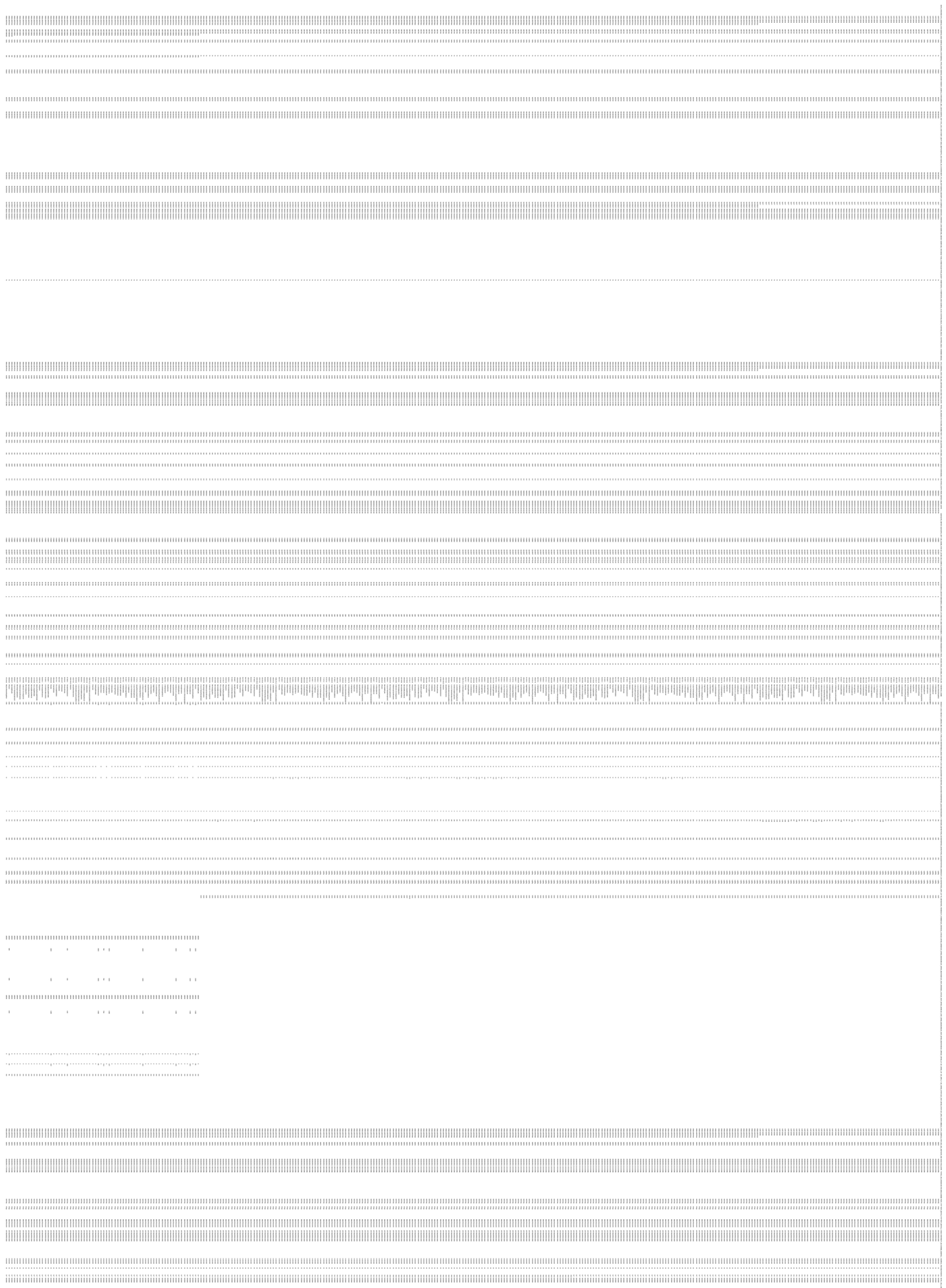


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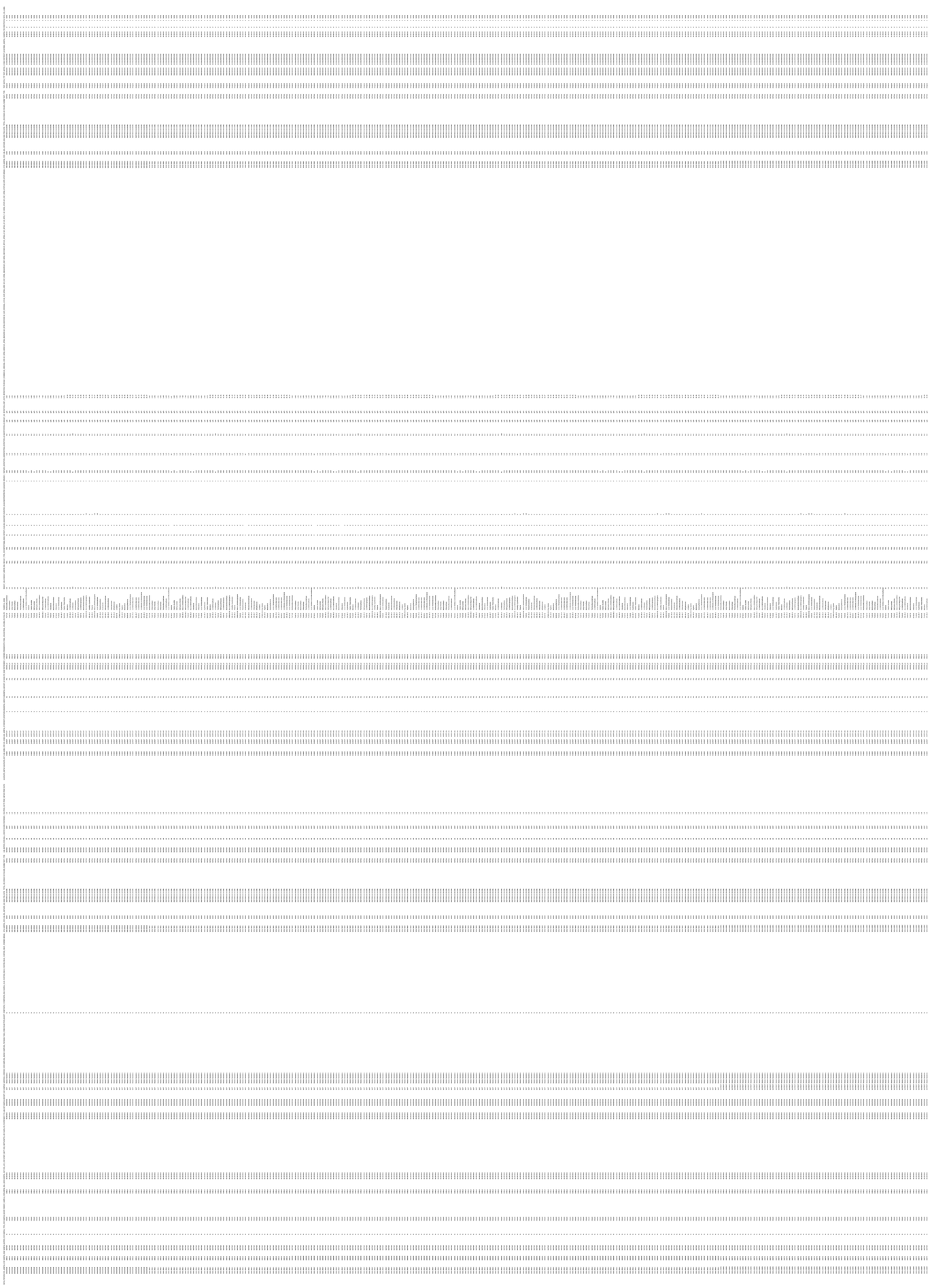


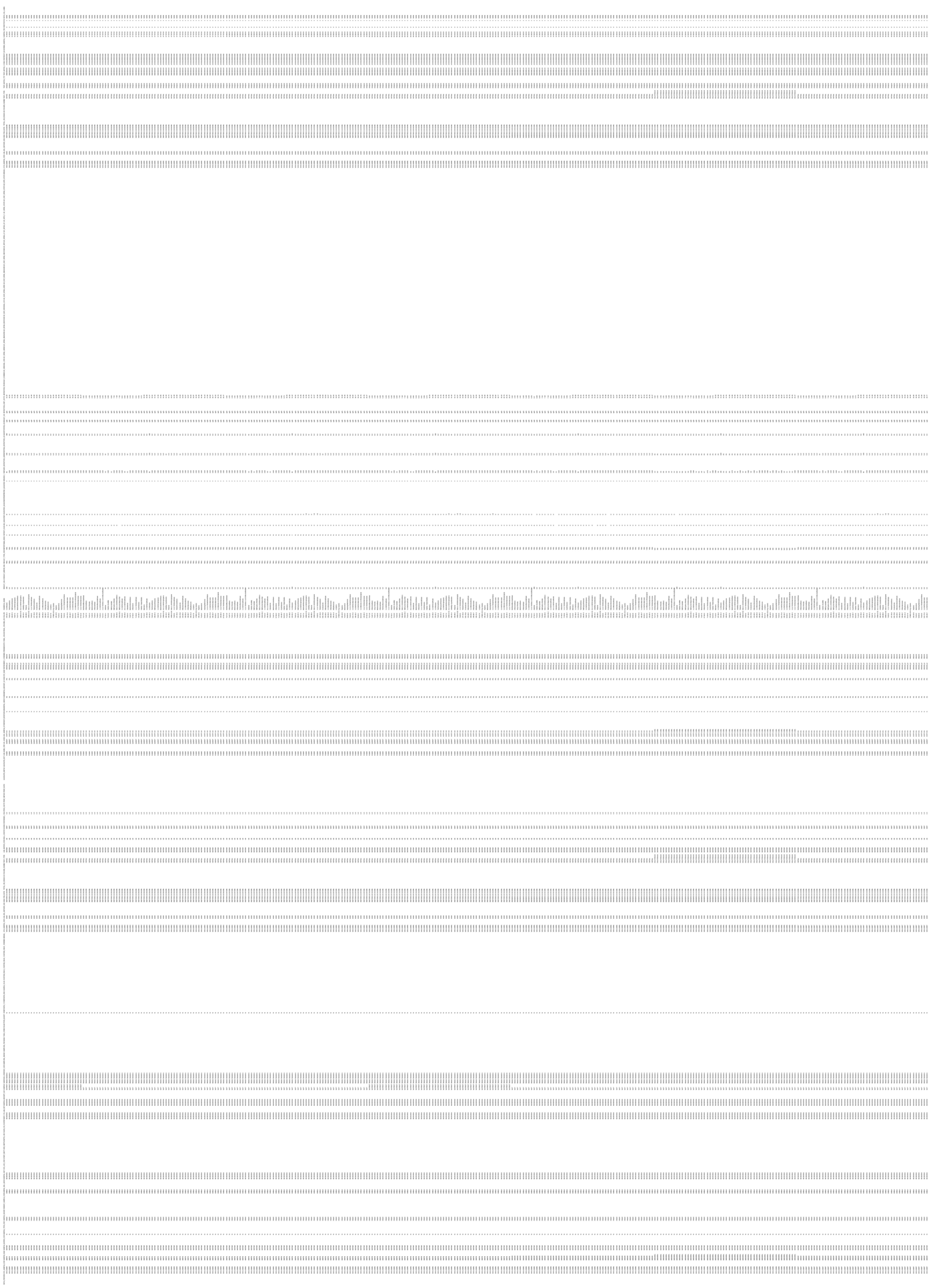


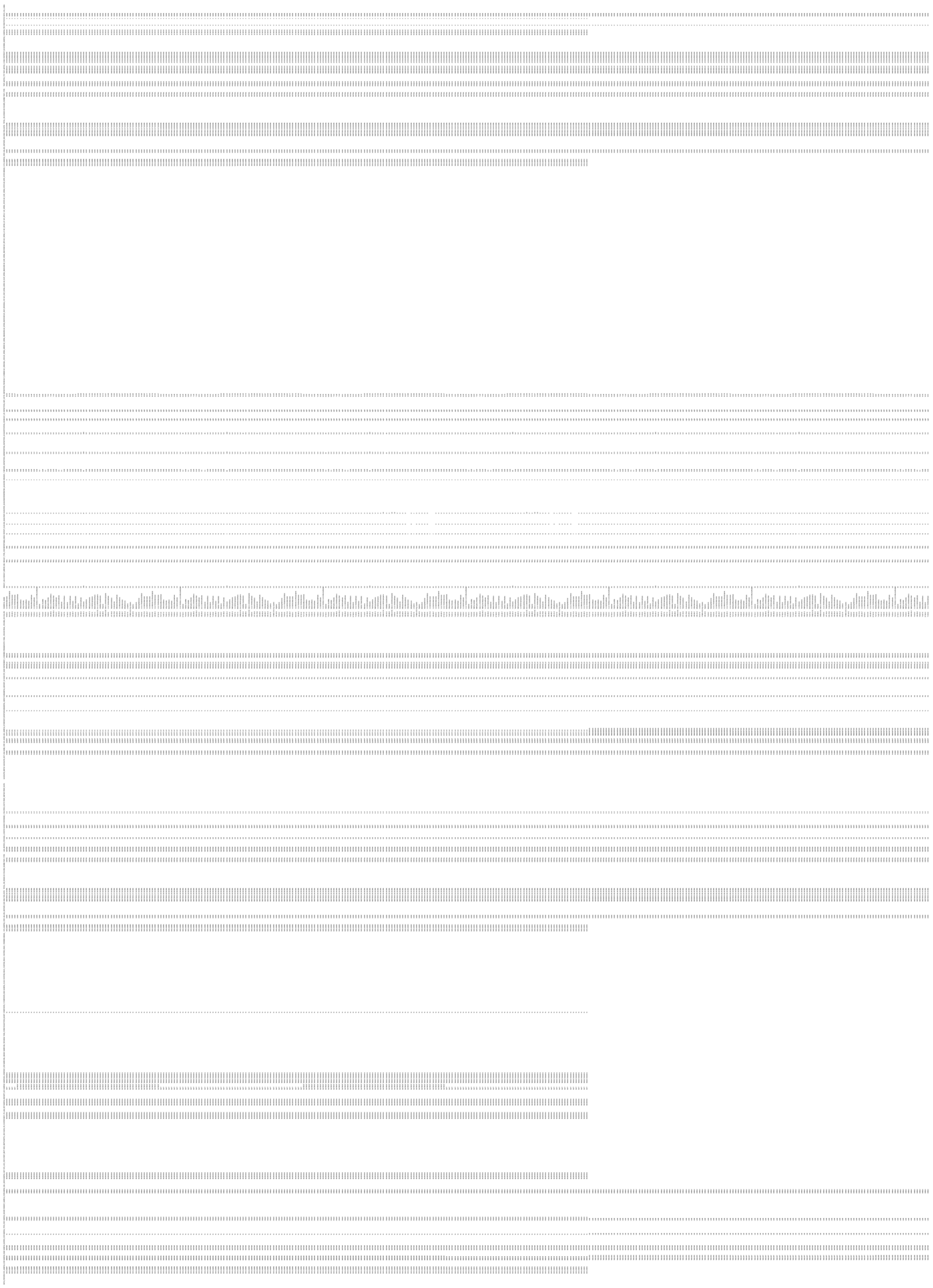




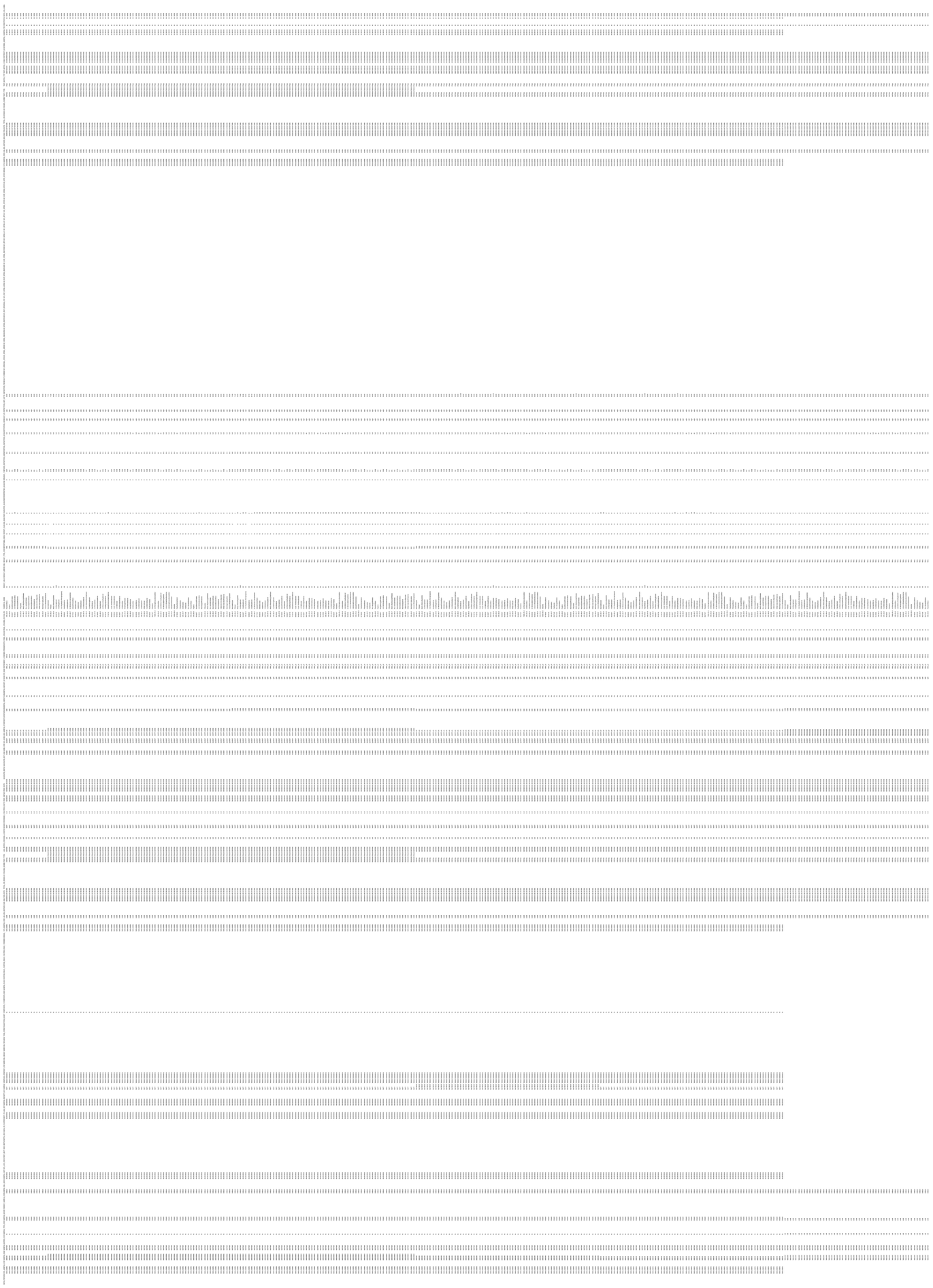


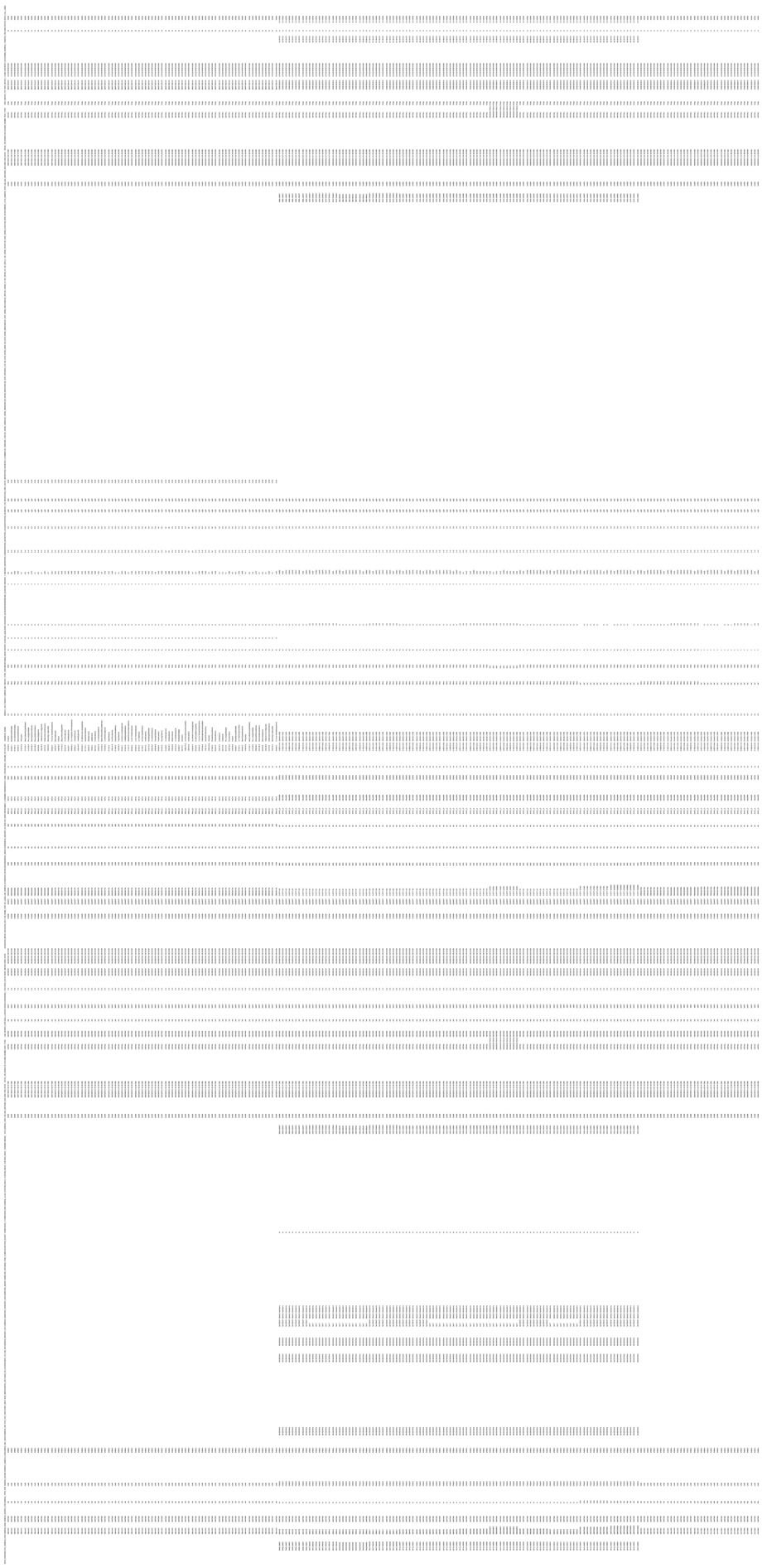












Project Site: St Croix Alumina Processing Plant, St. Croix, Virgin Island
Sample Matrix: Waste, Sediment
Analysis Type/Methods:

Procedure	Analyte
NAREL GAM-01	Bi212
NAREL GAM-01	Bi214
NAREL GAM-01	Pa234m
NAREL GAM-01	Pb210
NAREL GAM-01	Pb212
NAREL GAM-01	Pb214
NAREL GAM-01	Ra223
NAREL GAM-01	Ra226
NAREL GAM-01	Ra228
NAREL GAM-01	Rn219
NAREL GAM-01	Rn220
NAREL GAM-01	Th228
NAREL GAM-01	Th234
NAREL GAM-01	Tl208
NAREL GAM-01	U235
NAREL GR-03	Alpha

Procedure	Analyte
NAREL GR-03	Beta
NAREL TH-EICHROM	Th227
NAREL TH-EICHROM	Th228
NAREL TH-EICHROM	Th230
NAREL TH-EICHROM	Th232
NAREL TH-EICHROM	Yield
NAREL U-EICHROM	U234
NAREL U-EICHROM	U235
NAREL U-EICHROM	U238
NAREL U-EICHROM	Yield

Laboratory: **National Air and Radiation Environmental Laboratory**
Delivery Group : **1100224**

INTRODUCTION

Weston Solutions, Inc. collected and shipped twenty (20) waste samples in one cooler as Chain of Custody (COC) # 2-092711-140743-0023; these sample analyses are reported by NAREL as Delivery Group 1100224. The samples were collected between 9/15/2011 and 9/16/2011 as part of a preliminary investigation. Data validation activities were performed to the extent feasible, in accordance with the "*USACE Kansas City and St. Louis District Radionuclide Data Quality Evaluation Guidance for Alpha and Gamma Spectroscopy, Revision 01, June 2004*." The samples associated with this Delivery Group are as follows:

Sample_ID	Client_ID
B1.11274B	RMA-WST01A
B1.11275C	RMA-WST02A
B1.11276D	RMA-WST03A
B1.11277E	RMA-WST04A
B1.11278F	RMA-WST06A
B1.11279G	RMA-WST07A
B1.11280Z	RMA-WST09A

Sample_ID	Client_ID
B1.11281A	RMA-WST09B
B1.11282B	RMA-WST11A
B1.11283C	RMA-WST12A
B1.11284D	RMA-WST14A
B1.11285E	RMA-WST14B
B1.11286F	RMA-WST15A
B1.11287G	RMA-WST16A

Sample_ID	Client_ID
B1.11288H	RMA-WST16B
B1.11289J	RMA-WST17A
B1.11290B	RMA-WST17B
B1.11291C	RMA-WST18A
B1.11292D	RMA-WST19A
B1.11293E	RMA-WST20A

All of the samples on the COC could be related to samples listed in the reports for the Delivery Group, and all samples in the delivery group came from the COC. The following information was used to validate the analytical results, where feasible:

- Data Completeness/Sample Integrity
- Holding Time
- Calibration
- Tracer Analysis (Alpha Spec only)
- Quality Control Samples
- Blanks (Lab and Field)
- Laboratory Control Sample (LCS)
- Duplicates (Laboratory and Field)
- Matrix Spike (Alpha Spec only)
- Quantitation and Detection Limits
- Chemical Separation Specificity (Alpha Spec only)
- Target Radionuclide List Identification (Gamma Spec only)
- Result Verification

DATA COMPLETENESS/SAMPLE INTEGRITY – The data package included a comprehensive case narrative, and sample results. However no result report was provided for gross alpha and beta, only information in an EDD. I was instructed not to review the gross alpha and beta data. Raw data was provided in the form of pdf files for the gamma spectroscopy analyses only. Raw data, in the form of a complete EDD was not provided, and such an EDD is required to recalculate results in a reasonable amount of time. In addition, the NAREL written procedures do not include the equations used to calculate results, so recalculation was not possible for more than one reason.

There was nothing in the laboratory case narrative to suggest that samples were received in a compromised condition (e.g. not intact, in wrong sample containers or showing evidence of tampering). COC paperwork was available to review.

HOLDING TIME – All samples were analyzed within 180 days from sample collection.

CALIBRATION

Alpha Spectroscopy – No details were available concerning energy and efficiency, calibration or background determination frequency.

Gamma Spectroscopy – From the data provided it cannot be determined how frequently energy, efficiency, and background are determined. However the PDFs of the raw data did allow a more detailed examination than would otherwise have been possible. The energy calibration documentation of the gamma spec system was spot checked and appears to be acceptable.

TRACER ANALYSIS

Alpha Spectroscopy (isotopic thorium, isotopic uranium)
Tracer analysis was performed on each sample to determine radiochemical recovery (yield) for alpha spectroscopy. The tracer recovery criteria, as per the USACE Data Quality Evaluation Guidance, are 50-100%. The tracer recovery criteria were met, with the exceptions listed below. Therefore, isotopic thorium results for this sample by alpha spectroscopy for this sample were qualified estimated "J" (high uncertainty) due to low tracer recovery:

Sample_ID	Client_ID	Procedure	Yield%
B1.11279G	RMA-WST07A	NAREL TH-EICHROM	46.1

QUALITY CONTROL SAMPLES

Blanks (Field)

There were no field blanks associated with this sample set.

Blanks (Laboratory):

Alpha Spectroscopy - One (1) blank was analyzed per matrix for every twenty (20) samples.

Thorium Isotopes: No activity was reported in the thorium blank that exceeded the 2σ uncertainty, so no further investigation of the blanks was required.

Uranium Isotopes: No activity was reported in the thorium blank that exceeded the 2σ uncertainty, so no further investigation of the blanks was required.

Gamma Spectroscopy - One (1) soil blank was analyzed for every twenty (20) samples. No activity was reported in the gamma spectroscopy blank that exceeded the 2σ uncertainty, so no further investigation of the blanks was required.

Laboratory Control Samples (LCS):

Gamma Spectroscopy - The LCS was performed and the default control limits as specified in the USACE Data Quality Evaluation Guidance have been met.

Alpha Spectroscopy –

Thorium Samples:
The LCS was performed and the default control limits of 70-130%, as specified in the USACE Data Quality Evaluation Guidance have been met.

Uranium Samples:
The LCS was performed and the default control limits of 70-130%, as specified in the USACE Data Quality Evaluation Guidance have been met.

Replicates (Field):

No sample pair were identifiable by the validator as field replicates from review of the sample and analytical documentation. The review procedures do not require samples to carry qualifiers based on poor agreement of field replicates, thus no qualifiers were assigned based on lack of an identifiable field replicate.

Duplicates (Laboratory):

Alpha Spectroscopy –

Thorium Samples:
One (1) replicate was analyzed per matrix for every twenty (20) samples. The soil laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met in this delivery group. The Normalized Absolute Difference (NAD) was less than 1.96 for all results.

Uranium Samples:
One (1) replicate was analyzed per matrix for every twenty (20) samples. The soil laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met in this delivery group. The Normalized Absolute Difference (NAD) was less than 1.96 for all results.

Gamma Spectroscopy –
One (1) soil replicate was analyzed for every twenty (20) samples. The soil laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met. The Normalized Absolute Difference (NAD) was less than 1.96 for all results where there was data to support the calculation. Some analytes by gamma spectroscopy were qualified "Q" meaning "duplicate data not available for this analyte".

Matrix Spike:

Alpha Spectroscopy – Recoveries were determined on a sample by sample basis; there was no matrix spike.

QUANTITATION AND DETECTION LIMITS

Gamma Spectroscopy sample results were reported in pCi/g and Alpha Spectroscopy results were reported in pCi/g.

Alpha Spectroscopy – Results, associated uncertainties and detection limits were reviewed for the following:

- Results less than the MDA were qualified with a U.
- The laboratory narrative did not mention problems with spectra of samples having broadened peaks.

Gamma Spectroscopy – Results, associated uncertainties and detection limits were reviewed for the following:

- Laboratory censored data and did not report values less than MDA. When blank results exceeded 2σ, the NAD of sample and blank was calculated and results were qualified with a Q where appropriate.

CHEMICAL SEPARATION SPECIFICITY

Alpha Spectroscopy – No data was provided for this delivery group that could be used to evaluate chemical separation specificity.

TARGET RADIONUCLIDE LIST IDENTIFICATION

Gamma Spectroscopy – The raw gamma spec data sheets were reviewed for samples 11274B and 11275C form the Delivery Group. Those raw data sheets showed the energy or energies used to identify each of the reported isotopes and then summed the counts and reported the "average" result, which was used as the final reported concentration of the specified isotope. To verify compliance with the +- 2 keV energy range criterion required by the USACE in section X.C.1, one of the individual energies listed for each isotope was compared to the energies listed in the ICRP Publication for the specified isotope to determine if there was a corresponding characteristic energy. In all, seven isotopes (Bi-214, Ra-226, Pb-212, Th-228, Pa-234m, U-235, and Pb-214) were reviewed in this way for each of the two samples, and in each case the energies shown on the raw data report were compliant.

The narrative in the paper laboratory report points out that the spectral interference of Ra-226 and U-235. As a consequence, the results for these isotopes are coded R (reject) where the activity exceeded the MDC, and U (non-detect) where the MDC was not exceeded.

RESULT VERIFICATION –

Alpha Spectroscopy –

No data was provided for samples in this delivery group that could be used to verify results or check for transcription errors.

Gamma Spectroscopy –

The result values in the basic EDD supplied by the laboratory agreed with those in the paper report and in the raw data supplied in the PDF. The sample result and uncertainty columns were checked. For the two samples reviewed, the uncertainty values listed in the raw data PDF column labeled "+- 2.00 sigma" did not correlate with values in the paper report column labeled "+- 2σ uncertainty". Only three of the 24 values listed for uncertainty were considered to be the same.

The uncertainty value in the paper lab report is always greater than or equal to the value in the raw data. No equations are provided in the lab procedure, but the lab procedure does state that the reported uncertainty is the total propagated uncertainty (TPU). It is plausible that the uncertainties listed in the raw data PDF are based on counting statistics only while those in the paper report are TPU.

The radionuclide ratios of Ra-228 (gamma spectroscopy) to Th-228 (alpha spectroscopy) in each applicable sample have met the acceptable range of 0.5 to 2.

COMMENTS/PROBLEMS

- No field replicate pair was recognized.
- Sample B1.11279G (isotopic thorium) was qualified due to a low recovery.
- Some gamma spectroscopy results were qualified Q because laboratory duplicate results for that isotope were not reported.
- Sometimes the result calculated from the EDD was slightly different than the result reported in the paper report. The difference is notable but not alarming. Intermediate data that the lab used could have included more decimal places than the EDD I was provided.

DATA ASSESSMENT – To the extent feasible the overall precision and accuracy, as determined by QA/QC checks, including detector calibration, tracer analysis and quality control samples (i.e., blanks, LCS, and duplicates) were found to be valid and acceptable. Due to various QC problems some analytes were qualified "J" (estimated) or "Q" (no duplicate result available). All action is detailed above.

DATA VALIDATOR: Rick Haaker, CHP March 5, 2012.

Project Site: St Croix Alumina Processing Plant, St. Croix, Virgin Island
Sample Matrix: Waste, Sediment
Analysis Type/Methods:

Procedure	Analyte
NAREL GAM-01	Bi212
NAREL GAM-01	Bi214
NAREL GAM-01	Pa234m
NAREL GAM-01	Pb210
NAREL GAM-01	Pb212
NAREL GAM-01	Pb214
NAREL GAM-01	Ra223
NAREL GAM-01	Ra226
NAREL GAM-01	Ra228
NAREL GAM-01	Rn219
NAREL GAM-01	Rn220
NAREL GAM-01	Th227
NAREL GAM-01	Th228
NAREL GAM-01	Th234
NAREL GAM-01	Tl208

Procedure	Analyte
NAREL GAM-01	U235
NAREL GR-03	Alpha
NAREL GR-03	Beta
NAREL TH-EICHROM	Th227
NAREL TH-EICHROM	Th228
NAREL TH-EICHROM	Th230
NAREL TH-EICHROM	Th232
NAREL U-EICHROM	U234
NAREL U-EICHROM	U235
NAREL U-EICHROM	U238

Laboratory: National Air and Radiation Environmental Laboratory
Delivery Group : 1100225

INTRODUCTION

Weston Solutions, Inc. collected and shipped twenty (20) waste samples in one cooler as Chain of Custody (COC) # 2-092011-130824-0030; these sample analyses are reported by NAREL as Delivery Group 1100225. The samples were collected between 9/19/2011 and 9/20/2011. The samples were collected from the site as part of a preliminary investigation. Data validation activities were performed to the extent feasible, in accordance with the "*USACE Kansas City and St. Louis District Radionuclide Data Quality Evaluation Guidance for Alpha and Gamma Spectroscopy, Revision 01, June 2004*." The samples associated with this Delivery Group are as follows:

Sample_ID	Client_ID
B1.11405U	ADP-WST41A
B1.11406V	ADP-WST41B
B1.11407W	ADP-WST41C
B1.11408X	ADP-WST42A
B1.11409Y	ADP-WST42B
B1.11410Q	FBS-WST44A

Sample_ID	Client_ID
B1.11411R	FBS-WST45A
B1.11412T	FBS-WST46A
B1.11413U	RMB-WST24A
B1.11414V	RMB-WST28A
B1.11415W	RMB-WST29A
B1.11416X	RMB-WST30A

Sample_ID	Client_ID
B1.11417Y	RMB-WST30B
B1.11418Z	RMB-WST32A
B1.11419A	RMB-WST34A
B1.11420T	RMB-WST36A
B1.11421U	RMB-WST38A
B1.11422V	RMB-WST39A

Project Site: St Croix Alumina Processing Plant, St. Croix, Virgin Island
Delivery Group 1100225

Sample_ID	Client_ID
B1.11423W	RMB-WST39B

Sample_ID	Client_ID
B1.11424X	RMB-WST40A

All of the samples on the COC could be related to samples listed in the reports for the Delivery Group, and all samples in the delivery group came from the COC.

The following information was used to validate the analytical results, where feasible:

- Data Completeness/Sample Integrity
- Holding Time
- Calibration
- Tracer Analysis (Alpha Spec only)
- Quality Control Samples
  - Blanks (Lab and Field)
  - Laboratory Control Sample (LCS)
    - Duplicates (Laboratory and Field)
    - Matrix Spike (Alpha Spec only)
- Quantitation and Detection Limits
- Chemical Separation Specificity (Alpha Spec only)
- Target Radionuclide List Identification (Gamma Spec only)
- Result Verification

DATA COMPLETENESS/SAMPLE INTEGRITY – The data package included a comprehensive case narrative, and sample results. However no result report was provided for gross alpha and beta, only information in an EDD. I was instructed not to review the gross alpha and beta data. Raw data, in the form of a complete EDD was not provided, and such an EDD is required to recalculate results in a reasonable amount of time. In addition, the NAREL written procedures do not include the equations used to calculate results, so recalculation was not possible for more than one reason.

There was nothing in the laboratory case narrative to suggest that samples were received in a compromised condition (e.g. not intact, in wrong sample containers or showing evidence of tampering). COC paperwork was available to review. The samples that were validated for this Delivery Group appeared to be the ones collected from the site.

HOLDING TIME – All samples were analyzed within the specified holding time of 180 days from sample collection.

CALIBRATION

Alpha Spectroscopy – No details were available concerning energy and efficiency, calibration or background determination frequency.

Gamma Spectroscopy – No details were available concerning energy and efficiency, calibration or background determination frequency.

TRACER ANALYSIS

Alpha Spectroscopy (isotopic uranium and thorium)
Tracer analysis was performed on each sample to determine radiochemical recovery (yield) for alpha spectroscopy. The tracer recovery criteria, as per the USACE Data Quality Evaluation Guidance, are 50-100%. The tracer recovery criteria were met and no results were qualified due to low or high yield.

QUALITY CONTROL SAMPLES

Blanks (Field)

There were no field balnks for this delivery group.

Blanks (Laboratory):

Alpha Spectroscopy - One (1) blank was analyzed per matrix for every twenty (20) samples.

Uranium Isotopes: No U-235 or U-238 activity was reported in the uranium blank that exceeded the 2σ uncertainty. Uranium-234 activity was reported in the blank at levels that exceeded the 2σ uncertainty, however the NAD of sample and blank was well above 2.58 so no results required qualification.

Thorium Isotopes: No activity was reported in the thorium blank that exceeded the 2σ uncertainty.

Gamma Spectroscopy - One (1) soil blank was analyzed for every twenty (20) samples. No activity was reported in the blank that exceeded the 2σ uncertainty.

Laboratory Control Samples (LCS):

Gamma Spectroscopy - The LCS was performed and the default control limits as specified in the USACE Data Quality Evaluation Guidance have been met.

Alpha Spectroscopy –

Uranium and Thorium Samples:
The LCS was performed and the default control limits of 70-130%, as specified in the USACE Data Quality Evaluation Guidance have been met.

Replicates (Field):

The field replicate pair for this Delivery Group was:

Field Dup ID	Field Sample ID
ADP-WST41C	ADP-WST41B

Gamma Spectroscopy and Alpha Spectroscopy
Performance on field replicates was acceptable with all samples having a NAD of result and replicate result < 1.96. As discussed in the Laboratory Duplicates – Gamma Spectroscopy section, it was not possible in every instance to calculate a NAD.

Duplicates (Laboratory):

Alpha Spectroscopy –

Uranium Samples and Thorium Samples:
One (1) replicate was analyzed per matrix for every twenty (20) samples. The soil laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met in this delivery group. The Normalized Absolute Difference (NAD) was less than 1.96 for all results.

Gamma Spectroscopy - One (1) soil replicate was analyzed for every twenty (20) samples. The soil laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met. The Normalized Absolute Difference (NAD) was less than 1.96 for all results where there was data to support the calculation. The following analytes by gamma spectroscopy were qualified "Q" meaning "duplicate data not available for this analyte".

Procedure	Analyte	Qualifier
NAREL GAM-01	Pa234m	Q
NAREL GAM-01	Pb210	Q
NAREL GAM-01	Ra223	Q
NAREL GAM-01	Rn219	Q
NAREL GAM-01	Rn220	Q
NAREL GAM-01	Th227	Q
NAREL GAM-01	Th228	Q
NAREL GAM-01	Th234	Q

Matrix Spike:

Alpha Spectroscopy – Recoveries were determined on a sample by sample basis; there was no matrix spike.

QUANTITATION AND DETECTION LIMITS

Gamma Spectroscopy sample results were reported in pCi/g and Alpha Spectroscopy results were reported in pCi/g.

Alpha Spectroscopy – Results, associated uncertainties and detection limits were reviewed for the following:

- Results less than the MDA were qualified with a U.
- The laboratory narrative mentioned problems with spectra of samples having broadened peaks and this led to certain uranium and thorium results being J qualified.

Gamma Spectroscopy – Results, associated uncertainties and detection limits were reviewed for the following:

- Laboratory censored data and did not report values less than MDA. When blank results exceeded 2σ, the NAD of sample and blank was calculated and results were qualified with a Q where appropriate.

CHEMICAL SEPARATION SPECIFICITY

Alpha Spectroscopy – No data was provided for this delivery group that could be used to evaluate chemical separation specificity.

TARGET RADIONUCLIDE LIST IDENTIFICATION

Gamma Spectroscopy – No data was provided for this delivery group that could be used to judge energy calibration. The laboratory narrative discusses the overlap of U-235 and Ra-226 gamma rays; leading to overestimates of the concentrations of both. The radionuclides were assigned a U when they were not detected or an R where they were detected by gamma spectroscopy.

RESULT VERIFICATION – No data was provided for samples in this delivery group that could be used to verify results or check for transcription errors.

The radionuclide ratios of Ra-228 (gamma spectroscopy) to Th-228 (alpha spectroscopy) fell within the range of 0.5 to 2, and are considered reasonable.

COMMENTS/PROBLEMS

- Sometimes the result calculated from the EDD was slightly different than the result reported in the paper report. The difference is notable but not alarming. Intermediate data that the lab used could have included more decimal places than the EDD I was provided.
- Uranium-234 activity was detected in the media blank.
- Some isotopic uranium results by alpha spectroscopy were qualified due to peak broadening.
- Some isotopic thorium results by alpha spectroscopy were qualified due to peak broadening.
- Some gamma spectroscopy results were qualified because laboratory duplicate results for that isotope were not reported.
- The laboratory narrative reports interference between U-235 and Ra-226 by gamma spectroscopy.

DATA ASSESSMENT – To the extent feasible the overall precision and accuracy, as determined by QA/QC checks, including detector calibration, tracer analysis and quality control samples (i.e., blanks, LCS, and duplicates) were found to be valid and acceptable. Due to various QC problems some analytes were qualified "J" (estimated), "Q" (no duplicate result available), or "R" (rejected). All action is detailed above.

DATA VALIDATOR: Rick Haaker, CHP March 4, 2012.

Project Site: St Croix Alumina Processing Plant, St. Croix, Virgin Island
Sample Matrix: Waste, Sediment
Analysis Type/Methods:

Procedure	Analyte
NAREL GAM-01	Bi212
NAREL GAM-01	Bi214
NAREL GAM-01	Pa234m
NAREL GAM-01	Pb210
NAREL GAM-01	Pb212
NAREL GAM-01	Pb214
NAREL GAM-01	Ra223
NAREL GAM-01	Ra226
NAREL GAM-01	Ra228
NAREL GAM-01	Rn220
NAREL GAM-01	Th228
NAREL GAM-01	Th234
NAREL GAM-01	Tl208
NAREL GAM-01	U235

Procedure	Analyte
NAREL GR-03	Alpha
NAREL GR-03	Beta
NAREL TH-EICHROM	Th227
NAREL TH-EICHROM	Th228
NAREL TH-EICHROM	Th230
NAREL TH-EICHROM	Th232
NAREL U-EICHROM	U234
NAREL U-EICHROM	U235
NAREL U-EICHROM	U238

Laboratory: National Air and Radiation Environmental Laboratory
Delivery Group : 1100226

INTRODUCTION

Weston Solutions, Inc. collected and shipped samples under chain of custody (COC) forms 2-092111-103224-0034 and 2-092111-130009-0037. Some of these samples were analyzed and reported by NAREL as Delivery Group 1100226. The samples were collected between 9/14/2011 and 9/21/2011 as part of a preliminary investigation. Data validation activities were performed to the extent feasible, in accordance with the "*USACE Kansas City and St. Louis District Radionuclide Data Quality Evaluation Guidance for Alpha and Gamma Spectroscopy, Revision 01, June 2004*." The samples associated with this Delivery Group are as follows:

Sample_ID	Client_ID
B1.11425Y	RMA-WST01B
B1.11426Z	RMA-WST01C
B1.11427A	RMA-WST03B
B1.11428B	RMA-WST10B
B1.11429C	RMA-WST12B
B1.11619G	ADP-SD49
B1.11620Z	BG-S01

Sample_ID	Client_ID
B1.11621A	BG-S07
B1.11622B	BG-S08
B1.11623C	BG-S09
B1.11624D	BG-S10
B1.11625E	BG-S11
B1.11626F	BG-S12
B1.11627G	BG-S13

Sample_ID	Client_ID
B1.11628H	BG-S14
B1.11629J	BG-S15
B1.11630B	BG-S16A
B1.11631C	LCP-SD33
B1.11632D	RMA-WST13A
B1.11633E	RMA-WST13B

Not all of the samples on the COCs were included in delivery group 1100226. But all samples in the delivery group came from the two COC forms.

The following information was used to validate the analytical results, where feasible:

- Data Completeness/Sample Integrity
- Holding Time
- Calibration
- Tracer Analysis (Alpha Spec only)
- Quality Control Samples
    - Blanks (Lab and Field)
    - Laboratory Control Sample (LCS)
        - Duplicates (Laboratory and Field)
        - Matrix Spike (Alpha Spec only)
- Quantitation and Detection Limits
- Chemical Separation Specificity (Alpha Spec only)
- Target Radionuclide List Identification (Gamma Spec only)
- Result Verification

DATA COMPLETENESS/SAMPLE INTEGRITY – The data package included a comprehensive case narrative, and sample results. However no result report was provided for gross alpha and beta, only information in an EDD. I was instructed not to review the gross alpha and beta data. Raw data, which are required to perform a complete data validation were not available. In addition, the NAREL written procedures do not include the equations used to calculate results, so recalculation was not possible for more than one reason. There was nothing in the laboratory case narrative to suggest that samples were received in a compromised condition (e.g. not intact, in wrong sample containers or showing evidence of tampering). COC paperwork was available to review.

HOLDING TIME – All samples were analyzed within 180 days from sample collection.

CALIBRATION

Alpha Spectroscopy – No details were available concerning energy and efficiency, calibration or background determination frequency.

Gamma Spectroscopy – No details were available concerning energy and efficiency, calibration or background determination frequency.

TRACER ANALYSIS

Alpha Spectroscopy (isotopic uranium and thorium)

Tracer analysis was performed on each sample to determine radiochemical recovery (yield) for alpha spectroscopy. The tracer recovery criteria, as per the USACE Data Quality Evaluation Guidance, are 50-100%. The tracer recovery criteria were met with the following exception for isotopic thorium, and

those results were J qualified for high uncertainty, except for Th-227, which was qualified as a non-detect (U).

Sample_ID	Client_ID	Procedure
B1.11631C	LCP-SD33	NAREL TH-EICHROM

QUALITY CONTROL SAMPLES

Blanks (Field)

There were no field blanks associated with this sample set.

Blanks (Laboratory):

Alpha Spectroscopy - One (1) blank was analyzed per matrix for every twenty (20) samples. Activity was reported in the blanks at values that exceeded their uncertainty at 2σ as indicated below. As a result, twenty-three results were qualified due to having a normalized absolute difference (NAD) of sample and blank < 2.58. Two were non-detects (U) and 21 were assigned high uncertainty (J).

Procedure	Analyte
NAREL TH-EICHROM	Th228
NAREL TH-EICHROM	Th230
NAREL U-EICHROM	U234

Gamma Spectroscopy - One (1) soil blank was analyzed for every twenty (20) samples. No activity was reported in the media blank that exceeded the 2σ uncertainty, so no further investigation of the blanks was required.

Laboratory Control Samples (LCS):

One (1) soil LCS was analyzed for every twenty (20) samples.

Gamma Spectroscopy - The LCS was performed and the default control limits as specified in the USACE Data Quality Evaluation Guidance have been met.

Alpha Spectroscopy – The LCS was performed and the default control limits as specified in the USACE Data Quality Evaluation Guidance have been met.

Replicates (Field):

The field replicates for this delivery group are provided below. Poor agreement between samples and their field replicates is notable, but does not result in assignment of qualifiers.

Field Dup ID	Field Sample ID
RMA-WST01C	RMA-WST01B

Gamma Spectroscopy:
NAD values for replicate values for Ra-226 and U-235 were between were between 1.96 and 3.92. This would be considered poor agreement, but because of the known spectral interference of the gamma rays from these isotopes, the results are rejected when detected. Otherwise gamma spectroscopy replicate performance was acceptable.

Alpha Spectroscopy
Poor agreement was observed in the field replicates as indicated below. However, this did not result in assignment of specific qualifiers.

Del_Group	Procedure	Analyte	NAD
1100226	NAREL TH-EICHROM	Th228	>1.96
1100226	NAREL TH-EICHROM	Th230	>1.96
1100226	NAREL TH-EICHROM	Th232	> 3.92
1100226	NAREL U-EICHROM	U234	> 1.96
1100226	NAREL U-EICHROM	U238	>1.96

Duplicates (Laboratory):

Alpha Spectroscopy – One (1) soil replicate was analyzed for every twenty (20) samples. The soil laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met. The Normalized Absolute Difference (NAD) of sample and duplicate results was less than 1.96 for all uranium and thorium analytes.

Gamma Spectroscopy - One (1) soil replicate was analyzed for every twenty (20) samples. The soil laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met. The Normalized Absolute Difference (NAD) was less than 1.96 for all results where there was data to support the calculation. The following analytes by gamma spectroscopy were qualified "Q" meaning "duplicate data not available for this analyte".

Analyte	Qualifier
Ra228	Q

Matrix Spike:

Alpha Spectroscopy – Recoveries were determined on a sample by sample basis; there was no matrix spike.

QUANTITATION AND DETECTION LIMITS

Gamma Spectroscopy sample results were reported in pCi/g and Alpha Spectroscopy results were reported in pCi/g.

Alpha Spectroscopy – Results less than the MDA were qualified with a U.

Gamma Spectroscopy – Results, associated uncertainties and detection limits were reviewed for the following:

- Laboratory censored data and did not report values less than MDA. When blank results exceeded 2σ, the NAD of sample and blank was calculated and results were qualified with a Q where appropriate.

CHEMICAL SEPARATION SPECIFICITY

Alpha Spectroscopy - No data was provided for this delivery group that could be used to evaluate chemical separation specificity.

TARGET RADIONUCLIDE LIST IDENTIFICATION

Gamma Spectroscopy – No data was provided for this delivery group that could be used to judge energy calibration. The laboratory narrative discusses the overlap of U-235 and Ra-226 gamma rays; leading to overestimates of the concentrations of both. The radionuclides were assigned a U when they were not detected or an R where they were detected by gamma spectroscopy.

RESULT VERIFICATION – No raw data was provided for samples in this delivery group that could be used to recalculate results from scratch. In addition the written procedures provided by the laboratory did not include the equations used. No transcription errors were noticed.

COMMENTS/PROBLEMS

- Some gamma spectroscopy results were qualified Q because laboratory duplicate results for that isotope were not reported.
- Agreement between the field replicates was not good for alpha spectroscopy analytes.
- U-234, Th-228 and Th-230 were reported in the laboratory blank at greater than 2σ.
- Thorium tracer recovery was low.
- Sometimes the result calculated from the EDD was slightly different than the result reported in the paper report. The difference is notable but not alarming. Intermediate data that the lab used could have included more decimal places than the EDD I was provided.

Project Site: St Croix Alumina Processing Plant, St. Croix, Virgin Island
Delivery Group 1100226

DATA ASSESSMENT –

Gamma Spectroscopy: To the extent feasible the overall precision and accuracy, as determined by QA/QC checks, including detector calibration, tracer analysis and quality control samples (i.e., blanks, LCS, and duplicates) were found to be valid and acceptable. Due to various QC problems some analytes were qualified "J" (estimated) or "Q" (no duplicate result available). All action is detailed above.

Reported alpha spectroscopy data was rejected for reasons stated above.

DATA VALIDATOR: Rick Haaker, CHP March 6, 2012.

Project Site: St Croix Alumina Processing Plant, St. Croix, Virgin Island
Sample Matrix: Waste, Sediment
Analysis Type/Methods:

Analytes+Methods		
Del_Group	Procedure	Analyte
1100227	NAREL GAM-01	Bi212
1100227	NAREL GAM-01	Bi214
1100227	NAREL GAM-01	Pa234m
1100227	NAREL GAM-01	Pb210
1100227	NAREL GAM-01	Pb212
1100227	NAREL GAM-01	Pb214
1100227	NAREL GAM-01	Ra223
1100227	NAREL GAM-01	Ra226
1100227	NAREL GAM-01	Ra228
1100227	NAREL GAM-01	Rn220
1100227	NAREL GAM-01	Th228
1100227	NAREL GAM-01	Th234
1100227	NAREL GAM-01	Tl208

Analytes+Methods		
Del_Group	Procedure	Analyte
1100227	NAREL GAM-01	U235
1100227	NAREL GR-03	Alpha
1100227	NAREL GR-03	Beta
1100227	NAREL TH-EICHROM	Th227
1100227	NAREL TH-EICHROM	Th228
1100227	NAREL TH-EICHROM	Th230
1100227	NAREL TH-EICHROM	Th232
1100227	NAREL U-EICHROM	U234
1100227	NAREL U-EICHROM	U235
1100227	NAREL U-EICHROM	U238

Laboratory: National Air and Radiation Environmental Laboratory
Delivery Group : 1100227

INTRODUCTION

Weston Solutions, Inc. collected and shipped samples under 3 chain of custody forms in three coolers. Chain of Custody forms were 2-092011-124541-0029, 2-092011-133530-0031, and 2-092111-130009-0037. Some (20), but not all, of these samples were analysed and reported by NAREL as Delivery Group 1100227. The samples were collected between 9/14/2011 and 9/21/2011. The samples were collected from the site as part of a preliminary investigation. Data validation activities were performed to the extent feasible, in accordance with the "*USACE Kansas City and St. Louis District Radionuclide Data Quality Evaluation Guidance for Alpha and Gamma Spectroscopy, Revision 01, June 2004*." The samples associated with this Delivery Group are as follows:

Sample_ID	Client_ID
B1.11634F	RMA-WST20B
B1.11635G	RMA-WSTR01A
B1.11636H	RMA-WSTR02A
B1.11637J	RMS-SD45
B1.11638K	UCP-SD35

Sample_ID	Client_ID
B1.11639L	UCP-SD37
B1.11640D	UCP-SD39
B1.11641E	RMA-WST02B
B1.11642F	RMA-WST04B
B1.11643G	RMA-WST05A

Sample_ID	Client_ID
B1.11644H	RMA-WST05B
B1.11645J	RMA-WST06B
B1.11646K	RMA-WST07B
B1.11647L	RMA-WST08A
B1.11648M	RMA-WST10A

Project Site: St Croix Alumina Processing Plant, St. Croix, Virgin Island
Delivery Group 1100227

Sample_ID	Client_ID
B1.11649N	RMA-WST11B
B1.11650F	RMA-WST11C

Sample_ID	Client_ID
B1.11651G	RMA-WST19B
B1.11652H	RMB-WST22A

Sample_ID	Client_ID
B1.11653J	RMB-WST22B

The following information was used to validate the analytical results, where feasible:

- Data Completeness/Sample Integrity
- Holding Time
- Calibration
- Tracer Analysis (Alpha Spec only)
- Quality Control Samples
  - Blanks (Lab and Field)
  - Laboratory Control Sample (LCS)
    - Duplicates (Laboratory and Field)
    - Matrix Spike (Alpha Spec only)
- Quantitation and Detection Limits
- Chemical Separation Specificity (Alpha Spec only)
- Target Radionuclide List Identification (Gamma Spec only)
- Result Verification

DATA COMPLETENESS/SAMPLE INTEGRITY – The data package included a comprehensive case narrative, and sample results. However no result report was provided for gross alpha and beta, only information in an EDD. I was instructed not to review the gross alpha and beta data. Raw data, which are required to perform a complete data validation were not available. In addition, the NAREL written procedures do not include the equations used to calculate results, so recalculation was not possible for more than one reason.

There was nothing in the laboratory case narrative to suggest that samples were received in a compromised condition (e.g. not intact, in wrong sample containers or showing evidence of tampering). COC paperwork was available to review. The samples that were validated for this Delivery Group appeared to be the ones collected from the site.

HOLDING TIME – All samples were analyzed within 180 days from sample collection.

CALIBRATION

Alpha Spectroscopy – No details were available concerning energy and efficiency, calibration or background determination frequency.

Gamma Spectroscopy – No details were available concerning energy and efficiency, calibration or background determination frequency.

TRACER ANALYSIS

Alpha Spectroscopy (isotopic uranium and thorium)

Tracer analysis was performed on each sample to determine radiochemical recovery (yield) for alpha spectroscopy. The tracer recovery criteria, as per the USACE Data Quality Evaluation Guidance, are 50-100%. The tracer recovery criteria were met and no results were qualified due to low or high yield.

QUALITY CONTROL SAMPLES

Blanks (Field)

There were no field blanks associated with this sample set.

Blanks (Laboratory):

Alpha Spectroscopy - One (1) blank was analyzed per matrix for every twenty (20) samples.

Uranium Isotopes: uranium activity was reported in the uranium blank that exceeded the 2σ uncertainty. Uranium-234 activity was reported in the blank at levels that exceeded the 2σ uncertainty, however the NAD of sample and blank was well above 2.58 for all samples, so no results required qualification.

Thorium Isotopes: thorium-228 activity was reported in the thorium blank that exceeded the 2σ uncertainty. However the NAD of sample and blank was well above 2.58 for all samples, so no results required qualification.

Gamma Spectroscopy - One (1) soil blank was analyzed for every twenty (20) samples. Lead-212 was reported in the media blank at levels that exceeded the 2σ uncertainty. All lead-212 results were assigned a J (high uncertainty) qualifier because the NAD of samples and blank were less than 2.58. No activity was reported in the media blank that exceeded the 2σ uncertainty, so no further investigation of the blanks was required.

Laboratory Control Samples (LCS):

Gamma Spectroscopy - The LCS was performed and the default control limits as specified in the USACE Data Quality Evaluation Guidance have been met.

Alpha Spectroscopy –

Isotopic Uranium: The LCS was performed and the default control limits of 70 – 130% as specified in the USACE Data Quality Evaluation Guidance have been met.

Isotopic Thorium: The LCS was performed and the default control limits of 70 – 130% as specified in the USACE Data Quality Evaluation Guidance have been met.

Replicates (Field):

The following pair of samples are not accepted as valid field replicates. Although they appear to be field duplicates, they were not analyzed in the same batch or delivery group.

Field Dup ID	Field Sample ID
RMA-WST11C	RMA-WST11A

Duplicates (Laboratory):

Alpha Spectroscopy – One (1) soil replicate was analyzed for every twenty (20) samples. The soil laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met. The Normalized Absolute Difference (NAD) was less than 1.96 for all results. So, no samples were qualified due to poor agreement between sample and laboratory replicate.

Gamma Spectroscopy - One (1) soil replicate was analyzed for every twenty (20) samples. The soil laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met. The Normalized Absolute Difference (NAD) was less than 1.96 for all results where there was data to support the calculation. The following analytes by gamma spectroscopy were qualified "Q" meaning "duplicate data not available for this analyte".

Del_Group	Procedure	Analyte	Qualifier
1100227	NAREL GAM-01	Pb210	Q
1100227	NAREL GAM-01	Ra223	Q
1100227	NAREL GAM-01	Rn220	Q

Matrix Spike:

Alpha Spectroscopy – Recoveries were determined on a sample by sample basis; there was no matrix spike.

QUANTITATION AND DETECTION LIMITS

Gamma Spectroscopy sample results were reported in pCi/g and Alpha Spectroscopy results were reported in pCi/g.

Gamma Spectroscopy – Results, associated uncertainties and detection limits were reviewed for the following:

- Laboratory censored data and did not report values less than MDA. When blank results exceeded 2σ, the NAD of sample and blank was calculated and results were qualified with a Q where appropriate.

Alpha Spectroscopy – Results, associated uncertainties and detection limits were reviewed for the following: Results less than the MDA were qualified with a U.

- Isotopic Uranium- The laboratory narrative did not mention problems with spectra of samples having broadened peaks.
- Isotopic Thorium- The laboratory narrative did not mention problems with spectra of samples having broadened peaks.

CHEMICAL SEPARATION SPECIFICITY

Alpha Spectroscopy – No data was provided for this delivery group that could be used to evaluate chemical separation specificity.

TARGET RADIONUCLIDE LIST IDENTIFICATION

Gamma Spectroscopy – No data was provided for this delivery group that could be used to judge energy calibration. The laboratory narrative discusses the overlap of U-235 and Ra-226 gamma rays; leading to overestimates of the concentrations of both. The radionuclides were assigned a U when they were not detected or an R where they were detected by gamma spectroscopy.

RESULT VERIFICATION – No data was provided for samples in this delivery group that could be used to verify results or check for transcription errors. It is verified that the EDD provided for alpha spectroscopy review is not consistent with the paper report.

COMMENTS/PROBLEMS

- Some gamma spectroscopy results were qualified because laboratory duplicate results for that isotope were not reported.
- Activity was reported in the blank for uranium and thorium. However no samples required qualification owing to low values of NAD sample and blank.
- No pair of field replicate results were reported under this delivery group.
- Sometimes the result calculated from the EDD was slightly different than the result reported in the paper report. The difference is notable but not alarming. Intermediate data that the lab used could have included more decimal places than the EDD I was provided..

DATA ASSESSMENT –

Gamma Spectroscopy: To the extent feasible the overall precision and accuracy, as determined by QA/QC checks, including detector calibration, tracer analysis and quality control samples (i.e.,

blanks, LCS, and duplicates) were found to be valid and acceptable. Due to various QC problems some analytes were qualified "J" (estimated) or "Q" (no duplicate result available). All action is detailed above.

DATA VALIDATOR: Rick Haaker, CHP March 6, 2012.

Project Site: St Croix Alumina Processing Plant, St. Croix, Virgin Island
Sample Matrix: Waste, Sediment
Analysis Type/Methods:

Procedure	Analyte
NAREL GAM-01	Bi212
NAREL GAM-01	Bi214
NAREL GAM-01	K40
NAREL GAM-01	Pa234m
NAREL GAM-01	Pb212
NAREL GAM-01	Pb214
NAREL GAM-01	Ra223
NAREL GAM-01	Ra226
NAREL GAM-01	Ra228
NAREL GAM-01	Rn219
NAREL GAM-01	Rn220
NAREL GAM-01	Th228
NAREL GAM-01	Th234
NAREL GAM-01	Tl208

Procedure	Analyte
NAREL GAM-01	U235
NAREL GR-03	Alpha
NAREL GR-03	Beta
NAREL TH-EICHROM	Th227
NAREL TH-EICHROM	Th228
NAREL TH-EICHROM	Th230
NAREL TH-EICHROM	Th232
NAREL U-EICHROM	U234
NAREL U-EICHROM	U235
NAREL U-EICHROM	U238

Laboratory: National Air and Radiation Environmental Laboratory
Delivery Group : 1100228

INTRODUCTION

Weston Solutions, Inc. collected (19) sediment and waste samples during from 9/14/2011 through 9/21/2011. The samples were collected from the site as part of a preliminary investigation. Data validation activities were performed to the extent feasible, in accordance with the "*USACE Kansas City and St. Louis District Radionuclide Data Quality Evaluation Guidance for Alpha and Gamma Spectroscopy, Revision 01, June 2004*." The samples associated with this Delivery Group are as follows:

Sample_ID	Client_ID
B1.11654K	RMB-WST23A
B1.11655L	RMB-WST23B
B1.11656M	RMB-WST23C
B1.11657N	RMB-WST28B
B1.11658P	RMB-WST29B
B1.11659Q	RMB-WST34B
B1.11660H	RMB-WST37A
B1.11661J	RMB-WST37B

Sample_ID	Client_ID
B1.11720C	FBS-WST43A
B1.11721D	RMA-SD57
B1.11722E	RMA-SD58
B1.11723F	RMA-SD59
B1.11724G	RMA-SD60
B1.11725H	RMA-SD61
B1.11726J	RMA-SD62
B1.11727K	RMA-SD63
B1.11728L	RMA-WST06B(2)

Project Site: St Croix Alumina Processing Plant, St. Croix, Virgin Island
Delivery Group: 1100228

Sample_ID	Client_ID
B1.11729M	RMA-WST08B

Sample_ID	Client_ID
B1.11730E	RMA-WST18B

The following information was used to validate the analytical results, where feasible:

- Data Completeness/Sample Integrity
- Holding Time
- Calibration
- Tracer Analysis (Alpha Spec only)
- Quality Control Samples
  - Blanks (Lab and Field)
  - Laboratory Control Sample (LCS)
    - Duplicates (Laboratory and Field)
    - Matrix Spike (Ra-228 only)
- Quantitation and Detection Limits
- Chemical Separation Specificity (Alpha Spec only)
- Target Radionuclide List Identification (Gamma Spec only)
- Result Verification

DATA COMPLETENESS/SAMPLE INTEGRITY – The data package included a comprehensive case narrative, and sample results. However no result report was provided for gross alpha and beta, only information in an EDD. I was instructed not to review the gross alpha and beta data. Raw data, which are required to perform a complete data validation was not available. In addition, the NAREL written procedures do not include the equations used to calculate results, so recalculation was not possible for more than one reason.

There was nothing in the laboratory case narrative to suggest that samples were received in a compromised condition (e.g. not intact, in wrong sample containers or showing evidence of tampering). COC paperwork was available to review.

The samples being validated generally appeared to be the ones collected from the site; however there is the organizational issue of no one-to-one or many-to-one mapping of samples from COC to Delivery Group. For example sample RMB-WST22A appears on chain of custody # 2-092011-133530-0031 with other samples that are reported in the Delivery Group 1100228 lab report, but that sample actually is reported on the Delivery Group 1100227 lab report. It was not investigated whether all samples were analyzed for the intended analytes, and that all samples on all COC forms were analyzed.

HOLDING TIME – All samples were analyzed within 180 days from sample collection.

CALIBRATION

Alpha Spectroscopy – No details were available concerning energy and efficiency, calibration or background determination frequency.

Gamma Spectroscopy – No details were available concerning energy and efficiency, calibration or background determination frequency.

TRACER ANALYSIS

Alpha Spectroscopy (isotopic thorium, isotopic uranium)
Tracer analysis was performed on each sample to determine radiochemical recovery (yield) for alpha spectroscopy. The tracer recovery criteria, as per the USACE Data Quality Evaluation Guidance, are 50-100%. The tracer recovery criteria were met, with the exceptions listed below. Therefore, isotopic thorium results for that sample by alpha spectroscopy were qualified estimated "J" (low bias) due to low tracer recovery:

Sample_ID	Client_ID	Procedure	Yield%
B1.11655L	RMB-WST23B	NAREL TH-EICHROM	46

QUALITY CONTROL SAMPLES

Blanks (Field)

There were no field blanks associated with these data.

Blanks (Laboratory):

Alpha Spectroscopy - One (1) blank was analyzed per matrix for every twenty (20) samples.

Thorium Isotopes: No activity was reported in the thorium blank that exceeded the 2σ uncertainty, so no further investigation of the blanks was required.

Uranium Isotopes: U-234, U-235 and U-238 reported activities in the method blank exceeded their 2σ. The normalized absolute difference (NAD) was calculated and data for the following samples and analytes were qualified "J" due to NAD ≤ 2.58.

Sample_ID	Client_ID	Analyte	DERSampBlank
B1.11654K	RMB-WST23A	U235	1.37691
B1.11655L	RMB-WST23B	U235	1.406644
B1.11656M	RMB-WST23C	U235	1.492744
B1.11657N	RMB-WST28B	U235	2.233259
B1.11658P	RMB-WST29B	U235	2.151899
B1.11659Q	RMB-WST34B	U235	1.992886
B1.11660H	RMB-WST37A	U235	1.833597

Sample_ID	Client_ID	Analyte	DERSampBlank
B1.11661J	RMB-WST37B	U235	1.563524
B1.11720C	FBS-WST43A	U235	1.242028
B1.11721D	RMA-SD57	U235	0.8057025
B1.11722E	RMA-SD58	U235	0.6670069
B1.11723F	RMA-SD59	U235	1.288604
B1.11724G	RMA-SD60	U235	1.351801
B1.11725H	RMA-SD61	U235	0.8541988
B1.11726J	RMA-SD62	U235	1.172636
B1.11727K	RMA-SD63	U235	0.5836869
B1.11727K	RMA-SD63	U235	0.8501034
B1.11728L	RMA-WST06B(2)	U235	0.9646206
B1.11729M	RMA-WST08B	U235	1.280405
B1.11730E	RMA-WST18B	U235	1.659407

Gamma Spectroscopy - One (1) soil blank was analyzed for every twenty (20) samples. Lead-212 was reported in the blank at a value that exceeded 2σ. All lead-212 values for all samples in this delivery group carry a "J" due to the NAD of sample and blank being less than 2.58.

Laboratory Control Samples (LCS):

Gamma Spectroscopy - The LCS was performed and the default control limits as specified in the USACE Data Quality Evaluation Guidance have been met.

Alpha Spectroscopy –

Thorium Samples:
The LCS was performed and the default control limits of 70-130%, as specified in the USACE Data Quality Evaluation Guidance have been met.

Uranium Samples:
The LCS was performed and the default control limits of 70-130%, as specified in the USACE Data Quality Evaluation Guidance have been met.

Replicates (Field):

The field replicate associated with this Delivery Group is RMB-WST23C, which is a duplicate of RMB-WST23B. The replicate pair failed U-235 by gamma spectroscopy, with a NAD of 4.64. Poor performance on field replicates is not a reason to qualify a result, however. Replicate performance for other analytes and analytical procedures was satisfactory. U-235 detects by gamma spectroscopy end up being qualified R (rejected)

because of a known interference with Ra-226, so poor replicate performance in this instance is of no consequence.

Duplicates (Laboratory):

Alpha Spectroscopy –

Thorium Samples:
One (1) replicate was analyzed per matrix for every twenty (20) samples. The soil laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met in this delivery group. The Normalized Absolute Difference (NAD) was less than 1.96 for all results.

Uranium Samples:
One (1) replicate was analyzed per matrix for every twenty (20) samples. The soil laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met in this delivery group. The Normalized Absolute Difference (NAD) was less than 1.96 for all results.

Gamma Spectroscopy - One (1) soil replicate was analyzed for every twenty (20) samples. The soil laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met. The Normalized Absolute Difference (NAD) was less than 1.96 for all results.

Matrix Spike:

Alpha Spectroscopy – Recoveries were determined on a sample by sample basis; there was no matrix spike.

QUANTITATION AND DETECTION LIMITS

Gamma Spectroscopy sample results were reported in pCi/g and Alpha Spectroscopy results were reported in pCi/g.

Alpha Spectroscopy – Results, associated uncertainties and detection limits were reviewed for the following:

- Results less than the MDA were qualified with a U.
- The laboratory narrative identified U-235 peaks as broadened in certain samples, which suggests that some samples as-counted may have contained unwanted mass. The results for U-235 were already qualified due to activity detected in the laboratory blank.

Gamma Spectroscopy – Results, associated uncertainties and detection limits were reviewed for the following:

- Laboratory censored data and did not report values less than MDA. When blank results exceeded 2σ, the NAD of sample and blank was calculated and results were qualified with a Q where appropriate.

CHEMICAL SEPARATION SPECIFICITY

Alpha Spectroscopy – No data was provided for this delivery group that could be used to evaluate chemical separation specificity..

TARGET RADIONUCLIDE LIST IDENTIFICATION

Gamma Spectroscopy – No data was provided for this delivery group that could be used to judge energy calibration.

RESULT VERIFICATION – No data was provided for samples in this delivery group that could be used to verify results or check for transcription errors. No transcription errors were noticed when COCs were reviewed against EDDs or paper lab reports.

The radionuclide ratios of Ra-228 (gamma spectroscopy) to Th-228 (alpha spectroscopy) in each applicable sample have met the acceptable range of 0.5 to 2.

COMMENTS/PROBLEMS

- The laboratory narrative noted line broadening in uranium alpha spectroscopy and qualified some uranium results.
- Uranium was detected in the method blank.
- The field replicate pair exhibited a high normalized absolute deviation for uranium-235.
- Lead-212 was detected in the blank by gamma spectroscopy.
- There is not a clear relationship between chain of custody number and laboratory Delivery Group as discussed on page 2.
- Sample B1.11658P was counted on a gamma spec that failed an efficiency check.
- Sometimes the result calculated from the EDD was slightly different than the result reported in the paper report. The difference is notable but not alarming. Intermediate data that the lab used could have included more decimal places than the EDD I was provided.

DATA ASSESSMENT – To the extent feasible the overall precision and accuracy, as determined by QA/QC checks, including detector calibration, tracer analysis and quality control samples (i.e., blanks, LCS, and duplicates) were found to be valid and acceptable. Due to various QC problems some analytes were qualified "J" (estimated) or "Q" (no duplicate result available). All action is detailed above.

DATA VALIDATION REPORT FOR RADIOLOGICAL ANALYSIS

Project Site: St Croix Alumina Processing Plant, St. Croix, Virgin Island
Delivery Group: 1100228

DATA VALIDATOR: Rick Haaker, CHP March 5, 2012.

Project Site: St Croix Alumina Processing Plant, St. Croix, Virgin Island
Sample Matrix: Water
Analysis Type/Methods:

Analytes+Methods		
Del_Group	Procedure	Analyte
1100229	NAREL GR-01	Alpha
1100229	NAREL GR-01	Beta
1100229	NAREL RA-05	Ra228
1100229	NAREL RA226-EICHROM	Ra226
1100229	NAREL TH-EICHROM	Th227

Analytes+Methods		
Del_Group	Procedure	Analyte
1100229	NAREL TH-EICHROM	Th228
1100229	NAREL TH-EICHROM	Th230
1100229	NAREL TH-EICHROM	Th232
1100229	NAREL U-EICHROM	U234
1100229	NAREL U-EICHROM	U235
1100229	NAREL U-EICHROM	U238

Laboratory: National Air and Radiation Environmental Laboratory
Delivery Group : 1100229

INTRODUCTION

Weston Solutions, Inc. collected and shipped thirteen (13) water samples in three coolers under three separate Chain of Custody(COC) forms: 2-092211-120450-0049, 2-092211-112105-0047, and 2-092211-115537-0048; these sample analyses are reported by NAREL as Delivery Group 1100229. The samples were collected between 9/14/2011 and 9/21/2011 as part of a preliminary investigation. Data validation activities were performed to the extent feasible, in accordance with the "*USACE Kansas City and St. Louis District Radionuclide Data Quality Evaluation Guidance for Alpha and Gamma Spectroscopy, Revision 01, June 2004*." The samples associated with this Delivery Group are as follows:

Sample_ID	Client_ID
B1.11662K	RMA-SW57
B1.11663L	RMS-SW45
B1.11664M	SCA-GW01
B1.11665N	SW-RMA-WST12
B1.11666P	UCP-SW35

Sample_ID	Client_ID
B1.11667Q	UCP-SW39
B1.11668R	SCA-GW05
B1.11669T	SCA-GW06
B1.11670K	SCA-GW08
B1.11671L	SCA-GW10

Sample_ID	Client_ID
B1.11672M	WST-RIN01
B1.11673N	SCA-GW02
B1.11674P	SCA-GW07

All of the samples on the COCs could be related to samples listed in the reports for the Delivery Group, and all samples in the Delivery Group came from the identified COCs.

The following information was used to validate the analytical results, where feasible:

- Data Completeness/Sample Integrity
- Holding Time
- Calibration
- Tracer Analysis (Alpha Spec only)
- Quality Control Samples
    - Blanks (Lab and Field)
- Laboratory Control Sample (LCS)
    - Duplicates (Laboratory and Field)

  - Matrix Spike (Alpha Spec only)
- Quantitation and Detection Limits
- Chemical Separation Specificity (Alpha Spec only)
- Target Radionuclide List Identification (Gamma Spec only)
- Result Verification

DATA COMPLETENESS/SAMPLE INTEGRITY – The data package included a comprehensive case narrative, and sample results. However no result report was provided for gross alpha and beta, only information in a basic electronic data deliverable. I was instructed not to review the gross alpha and beta data. Raw data was provided in the form of pdf files. Raw data, in the form of a complete EDD was not provided, and such an EDD is required to recalculate results in a reasonable amount of time. In addition, the NAREL written procedures do not include the equations used to calculate results, so recalculation was not possible for more than one reason.

There was nothing in the laboratory case narrative to suggest that samples were received in a compromised condition (e.g. not intact, in wrong sample containers or showing evidence of tampering). COC paperwork was available to review. However, there were two versions of the COCs, one stating no preservatives, and later versions indicating preservation by nitric acid. The samples that were validated for this Delivery Group appeared to be the ones collected from the site.

The paper version of the lab reports appear to be consistent with the basic EDD that I was provided, except as noted

HOLDING TIME – All samples were analyzed within the specified holding time of 180 days from sample collection.

CALIBRATION

From the data provided it cannot be determined how frequently energy, efficiency, and background are determined. The energy calibration of the alpha spec system was spot checked and appears to be acceptable.

TRACER ANALYSIS

Alpha Spectroscopy (isotopic thorium, isotopic uranium, isotopic radium)
Tracer analysis was performed on each sample to determine radiochemical recovery (yield) for alpha spectroscopy. The tracer recovery criteria, as per the USACE Data Quality Evaluation Guidance, are 50-100%. The recoveries for samples in delivery group 1100229 were:

- Uranium (U-232) tracer recovery was acceptable for all samples.
- Radium (Ra-225) tracer recovery was acceptable for all samples.

- Thorium tracer recovery was acceptable for all samples except as follows.

Low Recovery					
Del_Group	Sample_ID	Client_ID	Procedure	LoYldFlag	Qualifier
1100229	B1.11664M	SCA-GW01	NAREL TH-EICHROM	J	U

Radium-228 by NAREL RA-05. Tracer recovery was not used, instead the matrix spike method was employed.

QUALITY CONTROL SAMPLES

Blanks (Field)

No field blank *per se* was recognized in this Delivery Group, but there is a rinse blank. WST-RIN01. Activity was detected in the rinse blank at levels that exceeded the MDC as follows. The J qualifier arises for some of these results because they were present in the method blank at levels that exceeded 2σ, and the normalized absolute difference (NAD) of rinse blank and method blank was less than 2.58.

Sample_ID	Client_ID	Procedure	Analyte	Qualifier
B1.11672M	WST-RIN01	NAREL TH-EICHROM	Th228	J
B1.11672M	WST-RIN01	NAREL U-EICHROM	U234	J
B1.11672M	WST-RIN01	NAREL U-EICHROM	U235	

Blanks (Laboratory)

One (1) blank was analyzed per matrix for every twenty (20) samples. Activity in excess of 2σ was reported in the method blank as follows:

Procedure	Analyte	Result	TwoSigma
NAREL RA-05	Ra228	0.436	0.39
NAREL TH-EICHROM	Th228	0.0837	0.032
NAREL U-EICHROM	U234	0.0165	0.015

These results led to the "J" qualification of some analytical results due to NAD of sample and method blank being less than 2.58.

Laboratory Control Samples (LCS)

Alpha Spectroscopy and Ra-228 –

The percent recovery from LCS was within the default control limits for all analytes, as specified in the USACE Data Quality Evaluation Guidance have been met.

Replicates (Field)

No sample pair was recognized as field replicates from review of the sample and analytical documentation. The review procedures do not require samples to carry qualifiers based on poor agreement of field replicates, thus no qualifiers were assigned based on lack of an identifiable field replicate.

Duplicates (Laboratory)

Alpha Spectroscopy and Ra-228

One (1) replicate was analyzed per matrix for every twenty (20) samples. The water laboratory duplicate sample criteria as specified in the USACE Data Quality Evaluation Guidance have been met in this delivery group. The Normalized Absolute Differences (NAD) were less than 1.96 for all results for all analytes.

Matrix Spike

Alpha Spectroscopy – Recoveries were determined on a sample by sample basis; there was no matrix spike.

Ra-228 by NAREL-RA-05 – The matrix spike recovery was in the acceptance range of 75 – 125%, which is acceptable.

QUANTITATION AND DETECTION LIMITS

Reporting Units:

- All results were reported in pCi/L in the paper reports. The EDD gives results in pCi/L for all analytes except for Ra-228 which is reported in pCi/ml.
- It was not necessary to convert all results to consistent units to complete the validation.

Alpha Spectroscopy and Ra-228 – Results, associated uncertainties and detection limits were reviewed for the following:

- Results less than the MDA were qualified with a U.

CHEMICAL SEPARATION SPECIFICITY

Alpha Spectroscopy – The regions of interest selected for the various isotopes appeared reasonable and appropriate.

Ra-226: The relative peak areas and energies of the peaks in the radium-226 region of interest were spot checked and they agree closely with published values.

Thorium: The relative peak areas and energies of the thorium-230, -232,and -228 peaks were spot checked and they agree closely with published values. There wasn't enough Th-227 counts in the spectra to check against. Other peaks are present in some spectra but this is probably to be expected since thorium-228 and thorium-227 both have short-lived alpha emitters immediately below them in their decay chains.

Uranium: The relative peak areas and energies of the U-232, -234,and -238 peaks were spot checked and they agree closely with published values. There weren't enough counts in the U-235 region of interest to check against.

TARGET RADIONUCLIDE LIST IDENTIFICATION

NA – This applies to gamma spectroscopy

RESULT VERIFICATION – Results were spot checked among the basic EDD, the paper report, and the raw data pdf. The paper version of the lab reports appear to be consistent with the basic EDD that I was provided and with the data provided in the raw data pdf. Sometimes the result calculated from the EDD was slightly different than the result reported in the paper report. The difference is notable but not alarming. Intermediate data that the lab used could have included more decimal places than the EDD I was provided.

COMMENTS/PROBLEMS

- No field replicate pair was identified.
- Sample SCA-GW01 (B1.11664M) was a non-detect, but would have been J qualified due to low recovery.

DATA ASSESSMENT – To the extent feasible the overall precision and accuracy, as determined by QA/QC checks, including detector calibration, tracer analysis and quality control samples (i.e., blanks, LCS, and duplicates) were found to be valid and acceptable. Due to various QC problems some analytes were qualified "J" (estimated) or "U" (not detected). All action is detailed above.

DATA VALIDATOR: Rick Haaker, CHP March 5, 2012.

Del_Group	Sample_ID	Client_ID	Analyte	Matrix	Procedure	Result	Uncertainty	MDCon	FinalUnits	Qualifier
1100224	B1.11274B	RMA-WST01A	Bi212	WASTE	NAREL GAM-01	10.6	1.3		PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Bi214	WASTE	NAREL GAM-01	1.6	0.19		PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Pa234m	WASTE	NAREL GAM-01	1.9	1.2		PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Pb212	WASTE	NAREL GAM-01	9.2	1.1		PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Pb214	WASTE	NAREL GAM-01	1.76	0.21		PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Ra223	WASTE	NAREL GAM-01	1.95	0.24		PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Ra226	WASTE	NAREL GAM-01	3.12	0.58		PCI/GDRY	R
1100224	B1.11274B	RMA-WST01A	Ra228	WASTE	NAREL GAM-01	9.9	1.1		PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Rn220	WASTE	NAREL GAM-01	14	10		PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Th227	WASTE	NAREL TH-EICHROM	0.4010395	0.223836	0.1716076	PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Th228	WASTE	NAREL GAM-01	8.3	5.8		PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Th228	WASTE	NAREL TH-EICHROM	8.114055	1.025915	0.10912	PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Th230	WASTE	NAREL TH-EICHROM	0.9606295	0.2518155	0.09214582	PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Th232	WASTE	NAREL TH-EICHROM	8.76691	1.11918	0.08030117	PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	Tl208	WASTE	NAREL GAM-01	3.06	0.35		PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	U234	WASTE	NAREL U-EICHROM	1.221771	0.2704685	0.08076749	PCI/GDRY	
1100224	B1.11274B	RMA-WST01A	U235	WASTE	NAREL GAM-01	0.196	0.037		PCI/GDRY	R
1100224	B1.11274B	RMA-WST01A	U235	WASTE	NAREL U-EICHROM	0.0223836	0.04756515	0.0767571	PCI/GDRY	U
1100224	B1.11274B	RMA-WST01A	U238	WASTE	NAREL U-EICHROM	1.333689	0.2891215	0.06407306	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Bi212	WASTE	NAREL GAM-01	14.7	1.7		PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Bi214	WASTE	NAREL GAM-01	3.19	0.37		PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Pa234m	WASTE	NAREL GAM-01	3.7	1.7		PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Pb212	WASTE	NAREL GAM-01	13.8	1.6		PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Pb214	WASTE	NAREL GAM-01	3.56	0.41		PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Ra223	WASTE	NAREL GAM-01	2.79	0.34		PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Ra226	WASTE	NAREL GAM-01	6.14	0.87		PCI/GDRY	R
1100224	B1.11275C	RMA-WST02A	Ra228	WASTE	NAREL GAM-01	13.5	1.6		PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Th227	WASTE	NAREL TH-EICHROM	0.5122419	0.2875744	0.2022007	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Th227	WASTE	NAREL TH-EICHROM	0.4223749	0.2426409	0.1303072	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Th228	WASTE	NAREL TH-EICHROM	12.49151	1.527739	0.1168271	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Th228	WASTE	NAREL TH-EICHROM	13.12058	1.617606	0.166254	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Th228	WASTE	NAREL GAM-01	12.4	6.1		PCI/GDRY	

Del_Group	Sample_ID	Client_ID	Analyte	Matrix	Procedure	Result	Uncertainty	MDCon	FinalUnits	Qualifier
1100224	B1.11275C	RMA-WST02A	Th230	WASTE	NAREL TH-EICHROM	3.54076	0.5841355	0.06991652	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Th230	WASTE	NAREL TH-EICHROM	3.441906	0.6110956	0.1087391	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Th232	WASTE	NAREL TH-EICHROM	13.12058	1.527739	0.09256301	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Th232	WASTE	NAREL TH-EICHROM	13.56992	1.617606	0.1249151	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Th234	WASTE	NAREL GAM-01	2.62	0.51		PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	Tl208	WASTE	NAREL GAM-01	4.54	0.52		PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	U234	WASTE	NAREL U-EICHROM	2.821824	0.4762951	0.07449975	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	U234	WASTE	NAREL U-EICHROM	2.965611	0.4942685	0.04933698	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	U235	WASTE	NAREL GAM-01	0.369	0.053		PCI/GDRY	R
1100224	B1.11275C	RMA-WST02A	U235	WASTE	NAREL U-EICHROM	0.1222191	0.087171	0.05886288	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	U235	WASTE	NAREL U-EICHROM	0.1707473	0.1078404	0.07827415	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	U238	WASTE	NAREL U-EICHROM	3.396973	0.5481887	0.07485921	PCI/GDRY	
1100224	B1.11275C	RMA-WST02A	U238	WASTE	NAREL U-EICHROM	3.217238	0.5302153	0.07449975	PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Bi212	WASTE	NAREL GAM-01	14.7	1.7		PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Bi214	WASTE	NAREL GAM-01	3.39	0.39		PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Pa234m	WASTE	NAREL GAM-01	4.5	1.9		PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Pb212	WASTE	NAREL GAM-01	14.5	1.7		PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Pb214	WASTE	NAREL GAM-01	3.78	0.44		PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Ra226	WASTE	NAREL GAM-01	7.3	1		PCI/GDRY	R
1100224	B1.11276D	RMA-WST03A	Ra228	WASTE	NAREL GAM-01	14.3	1.6		PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Th227	WASTE	NAREL TH-EICHROM	0.621915	0.2931885	0.1741362	PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Th228	WASTE	NAREL GAM-01	14.1	7.3		PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Th228	WASTE	NAREL TH-EICHROM	14.48173	1.688055	0.1075025	PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Th230	WASTE	NAREL TH-EICHROM	3.322803	0.5597235	0.1075025	PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Th232	WASTE	NAREL TH-EICHROM	14.12635	1.688055	0.106614	PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Th234	WASTE	NAREL GAM-01	2.77	0.56		PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	Tl208	WASTE	NAREL GAM-01	4.77	0.55		PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	U234	WASTE	NAREL U-EICHROM	3.891411	0.6130305	0.08342545	PCI/GDRY	

Del_Group	Sample_ID	Client_ID	Analyte	Matrix	Procedure	Result	Uncertainty	MDCon	FinalUnits	Qualifier
1100224	B1.11276D	RMA-WST03A	U235	WASTE	NAREL U-EICHROM	0.230997	0.124383	0.05988153	PCI/GDRY	
1100224	B1.11276D	RMA-WST03A	U235	WASTE	NAREL GAM-01	0.456	0.063		PCI/GDRY	R
1100224	B1.11276D	RMA-WST03A	U238	WASTE	NAREL U-EICHROM	3.918064	0.6130305	0.05001973	PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Bi212	WASTE	NAREL GAM-01	12	1.4		PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Bi214	WASTE	NAREL GAM-01	2.63	0.31		PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Pa234m	WASTE	NAREL GAM-01	3.3	1.7		PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Pb212	WASTE	NAREL GAM-01	11.2	1.3		PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Pb214	WASTE	NAREL GAM-01	2.88	0.33		PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Ra223	WASTE	NAREL GAM-01	2.4	0.29		PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Ra226	WASTE	NAREL GAM-01	4.63	0.69		PCI/GDRY	R
1100224	B1.11277E	RMA-WST04A	Ra228	WASTE	NAREL GAM-01	11.4	1.3		PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Th227	WASTE	NAREL TH-EICHROM	0.5288877	0.2868544	0.1523914	PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Th228	WASTE	NAREL GAM-01	9.2	6.2		PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Th228	WASTE	NAREL TH-EICHROM	10.30883	1.34463	0.1362558	PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Th230	WASTE	NAREL TH-EICHROM	2.527904	0.5019952	0.1362558	PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Th232	WASTE	NAREL TH-EICHROM	11.29489	1.434272	0.123706	PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Th234	WASTE	NAREL GAM-01	1.79	0.42		PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	Tl208	WASTE	NAREL GAM-01	3.67	0.42		PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	U234	WASTE	NAREL U-EICHROM	2.34862	0.4302816	0.05199236	PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	U235	WASTE	NAREL U-EICHROM	0.1972124	0.1165346	0.06230119	PCI/GDRY	
1100224	B1.11277E	RMA-WST04A	U235	WASTE	NAREL GAM-01	0.274	0.041		PCI/GDRY	R
1100224	B1.11277E	RMA-WST04A	U238	WASTE	NAREL U-EICHROM	2.698224	0.4751026	0.05199236	PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Bi212	WASTE	NAREL GAM-01	13.6	1.6		PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Bi214	WASTE	NAREL GAM-01	3.78	0.44		PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Pa234m	WASTE	NAREL GAM-01	5.2	1.4		PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Pb212	WASTE	NAREL GAM-01	12.4	1.4		PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Pb214	WASTE	NAREL GAM-01	4.19	0.48		PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Ra223	WASTE	NAREL GAM-01	2.5	0.3		PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Ra226	WASTE	NAREL GAM-01	7.9	1		PCI/GDRY	R
1100224	B1.11278F	RMA-WST06A	Ra228	WASTE	NAREL GAM-01	12.5	1.4		PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Rn220	WASTE	NAREL GAM-01	9	10		PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Th227	WASTE	NAREL TH-EICHROM	0.713824	0.3212208	0.1347343	PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Th228	WASTE	NAREL TH-EICHROM	11.68887	1.427648	0.1293806	PCI/GDRY	

Del_Group	Sample_ID	Client_ID	Analyte	Matrix	Procedure	Result	Uncertainty	MDCon	FinalUnits	Qualifier
1100224	B1.11278F	RMA-WST06A	Th228	WASTE	NAREL GAM-01	11.5	5.3		PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Th230	WASTE	NAREL TH-EICHROM	3.899263	0.6156732	0.1124273	PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Th232	WASTE	NAREL TH-EICHROM	12.40269	1.516876	0.089228	PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Th234	WASTE	NAREL GAM-01	5.33	0.64		PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	Tl208	WASTE	NAREL GAM-01	3.96	0.46		PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	U234	WASTE	NAREL U-EICHROM	4.372172	0.6959784	0.05648132	PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	U235	WASTE	NAREL GAM-01	0.474	0.061		PCI/GDRY	R
1100224	B1.11278F	RMA-WST06A	U235	WASTE	NAREL U-EICHROM	0.2855296	0.1427648	0.1026122	PCI/GDRY	
1100224	B1.11278F	RMA-WST06A	U238	WASTE	NAREL U-EICHROM	3.578043	0.5978276	0.07477307	PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	Bi212	WASTE	NAREL GAM-01	14.7	1.8		PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	Bi214	WASTE	NAREL GAM-01	3.32	0.39		PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	Pa234m	WASTE	NAREL GAM-01	4.4	1.8		PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	Pb212	WASTE	NAREL GAM-01	14.1	1.6		PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	Pb214	WASTE	NAREL GAM-01	3.71	0.43		PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	Ra223	WASTE	NAREL GAM-01	2.89	0.36		PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	Ra226	WASTE	NAREL GAM-01	6.7	1		PCI/GDRY	R
1100224	B1.11279G	RMA-WST07A	Ra228	WASTE	NAREL GAM-01	13.7	1.6		PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	Th227	WASTE	NAREL TH-EICHROM	0.6406992	0.3470454	0.2589493	PCI/GDRY	J
1100224	B1.11279G	RMA-WST07A	Th228	WASTE	NAREL TH-EICHROM	11.65717	1.512762	0.1432675	PCI/GDRY	J
1100224	B1.11279G	RMA-WST07A	Th228	WASTE	NAREL GAM-01	15.1	8.8		PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	Th230	WASTE	NAREL TH-EICHROM	3.212394	0.5962062	0.1139021	PCI/GDRY	J
1100224	B1.11279G	RMA-WST07A	Th232	WASTE	NAREL TH-EICHROM	12.63601	1.601748	0.1432675	PCI/GDRY	J
1100224	B1.11279G	RMA-WST07A	Th234	WASTE	NAREL GAM-01	1.44	0.57		PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	Tl208	WASTE	NAREL GAM-01	4.54	0.52		PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	U234	WASTE	NAREL U-EICHROM	4.876433	0.7296852	0.04992115	PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	U235	WASTE	NAREL U-EICHROM	0.2313636	0.1245804	0.07919754	PCI/GDRY	
1100224	B1.11279G	RMA-WST07A	U235	WASTE	NAREL GAM-01	0.418	0.062		PCI/GDRY	R
1100224	B1.11279G	RMA-WST07A	U238	WASTE	NAREL U-EICHROM	3.835297	0.6051048	0.08337988	PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Bi212	WASTE	NAREL GAM-01	13	1.5		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Bi212	WASTE	NAREL GAM-01	13	1.5		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Bi214	WASTE	NAREL GAM-01	2.59	0.3		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Bi214	WASTE	NAREL GAM-01	2.55	0.3		PCI/GDRY	

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1100224	B1.11280Z	RMA-WST09A	Pa234m	WASTE	NAREL GAM-01	2.4	1.3		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Pa234m	WASTE	NAREL GAM-01	3.7	1.8		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Pb212	WASTE	NAREL GAM-01	11.8	1.4		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Pb212	WASTE	NAREL GAM-01	11.8	1.4		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Pb214	WASTE	NAREL GAM-01	2.82	0.33		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Pb214	WASTE	NAREL GAM-01	2.81	0.33		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Ra223	WASTE	NAREL GAM-01	2.56	0.32		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Ra226	WASTE	NAREL GAM-01	5.22	0.8		PCI/GDRY	R
1100224	B1.11280Z	RMA-WST09A	Ra226	WASTE	NAREL GAM-01	4.59	0.74		PCI/GDRY	R
1100224	B1.11280Z	RMA-WST09A	Ra228	WASTE	NAREL GAM-01	12.6	1.5		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Ra228	WASTE	NAREL GAM-01	12.5	1.4		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Rn220	WASTE	NAREL GAM-01	10.6	9.7		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Th227	WASTE	NAREL TH-EICHROM	0.5338379	0.2623949	0.1221494	PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Th228	WASTE	NAREL TH-EICHROM	10.40532	1.266734	0.1176253	PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Th228	WASTE	NAREL GAM-01	7.6	6.4		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Th230	WASTE	NAREL TH-EICHROM	1.972486	0.3800202	0.08107097	PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Th232	WASTE	NAREL TH-EICHROM	9.590986	1.176253	0.1167205	PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	Tl208	WASTE	NAREL GAM-01	3.92	0.45		PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	U234	WASTE	NAREL U-EICHROM	2.081063	0.3890683	0.06496536	PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	U235	WASTE	NAREL GAM-01	0.318	0.049		PCI/GDRY	R
1100224	B1.11280Z	RMA-WST09A	U235	WASTE	NAREL U-EICHROM	0.1266734	0.0995291	0.1121964	PCI/GDRY	
1100224	B1.11280Z	RMA-WST09A	U235	WASTE	NAREL GAM-01	0.288	0.046		PCI/GDRY	R
1100224	B1.11280Z	RMA-WST09A	U238	WASTE	NAREL U-EICHROM	2.207736	0.3981164	0.04913118	PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Bi212	WASTE	NAREL GAM-01	16.6	2		PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Bi214	WASTE	NAREL GAM-01	4.12	0.48		PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Pa234m	WASTE	NAREL GAM-01	2.7	1.8		PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Pb212	WASTE	NAREL GAM-01	15.4	1.8		PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Pb214	WASTE	NAREL GAM-01	4.45	0.52		PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Ra223	WASTE	NAREL GAM-01	3.46	0.43		PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Ra226	WASTE	NAREL GAM-01	7.8	1.2		PCI/GDRY	R
1100224	B1.11281A	RMA-WST09B	Ra228	WASTE	NAREL GAM-01	15.9	1.8		PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Rn220	WASTE	NAREL GAM-01	21	15		PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Th227	WASTE	NAREL TH-EICHROM	0.3533244	0.2627284	0.2346436	PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Th228	WASTE	NAREL TH-EICHROM	12.95523	1.449536	0.2092768	PCI/GDRY	

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1100224	B1.11281A	RMA-WST09B	Th228	WASTE	NAREL GAM-01	15.7	7.3		PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Th230	WASTE	NAREL TH-EICHROM	3.460767	0.6251124	0.1313642	PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Th232	WASTE	NAREL TH-EICHROM	13.68	1.540132	0.1648847	PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Th234	WASTE	NAREL GAM-01	2.39	0.63		PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	Tl208	WASTE	NAREL GAM-01	4.96	0.57		PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	U234	WASTE	NAREL U-EICHROM	3.442648	0.543576	0.06097111	PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	U235	WASTE	NAREL GAM-01	0.48	0.073		PCI/GDRY	R
1100224	B1.11281A	RMA-WST09B	U235	WASTE	NAREL U-EICHROM	0.1721324	0.0996556	0.07292978	PCI/GDRY	
1100224	B1.11281A	RMA-WST09B	U238	WASTE	NAREL U-EICHROM	3.40641	0.5345164	0.0768254	PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	Bi212	WASTE	NAREL GAM-01	15.6	1.9		PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	Bi214	WASTE	NAREL GAM-01	3.79	0.44		PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	Pa234m	WASTE	NAREL GAM-01	4.9	2.1		PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	Pb212	WASTE	NAREL GAM-01	14.3	1.6		PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	Pb214	WASTE	NAREL GAM-01	4.1	0.48		PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	Ra226	WASTE	NAREL GAM-01	7.9	1.2		PCI/GDRY	R
1100224	B1.11282B	RMA-WST11A	Ra228	WASTE	NAREL GAM-01	14.6	1.7		PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	Th227	WASTE	NAREL TH-EICHROM	0.5752896	0.2786559	0.1680924	PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	Th228	WASTE	NAREL TH-EICHROM	12.40468	1.438224	0.09618123	PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	Th230	WASTE	NAREL TH-EICHROM	3.631516	0.5752896	0.06355152	PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	Th232	WASTE	NAREL TH-EICHROM	13.48335	1.528113	0.106069	PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	Tl208	WASTE	NAREL GAM-01	4.73	0.55		PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	U234	WASTE	NAREL U-EICHROM	3.523649	0.5573118	0.08323722	PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	U235	WASTE	NAREL GAM-01	0.474	0.07		PCI/GDRY	R
1100224	B1.11282B	RMA-WST11A	U235	WASTE	NAREL U-EICHROM	0.2516892	0.1258446	0.05537162	PCI/GDRY	
1100224	B1.11282B	RMA-WST11A	U238	WASTE	NAREL U-EICHROM	3.047237	0.4943895	0.07011342	PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Bi212	WASTE	NAREL GAM-01	20.9	2.4		PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Bi214	WASTE	NAREL GAM-01	3.49	0.4		PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Pa234m	WASTE	NAREL GAM-01	4.3	1.7		PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Pb212	WASTE	NAREL GAM-01	19.5	2.2		PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Pb214	WASTE	NAREL GAM-01	4.01	0.46		PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Ra226	WASTE	NAREL GAM-01	7.02	0.99		PCI/GDRY	R
1100224	B1.11283C	RMA-WST12A	Ra228	WASTE	NAREL GAM-01	19.1	2.2		PCI/GDRY	

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1100224	B1.11283C	RMA-WST12A	Rn220	WASTE	NAREL GAM-01	40	20		PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Th227	WASTE	NAREL TH-EICHROM	0.3795868	0.2736556	0.1818486	PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Th228	WASTE	NAREL GAM-01	19	7.1		PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Th228	WASTE	NAREL TH-EICHROM	16.94899	1.76552	0.2771867	PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Th230	WASTE	NAREL TH-EICHROM	3.257385	0.6091044	0.1694899	PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Th232	WASTE	NAREL TH-EICHROM	16.15451	1.677244	0.1536002	PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Th234	WASTE	NAREL GAM-01	1.59	0.35		PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	Tl208	WASTE	NAREL GAM-01	6.28	0.72		PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	U234	WASTE	NAREL U-EICHROM	2.718901	0.4590352	0.04811042	PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	U235	WASTE	NAREL U-EICHROM	0.1588968	0.0971036	0.05764423	PCI/GDRY	
1100224	B1.11283C	RMA-WST12A	U235	WASTE	NAREL GAM-01	0.417	0.059		PCI/GDRY	R
1100224	B1.11283C	RMA-WST12A	U238	WASTE	NAREL U-EICHROM	2.630625	0.4502076	0.06373527	PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Bi212	WASTE	NAREL GAM-01	11.4	1.4		PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Bi214	WASTE	NAREL GAM-01	2.78	0.32		PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Pa234m	WASTE	NAREL GAM-01	2.9	1.8		PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Pb212	WASTE	NAREL GAM-01	10.8	1.2		PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Pb214	WASTE	NAREL GAM-01	2.99	0.35		PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Ra226	WASTE	NAREL GAM-01	1.75	0.55		PCI/GDRY	R
1100224	B1.11284D	RMA-WST14A	Ra228	WASTE	NAREL GAM-01	11.4	1.3		PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Rn220	WASTE	NAREL GAM-01	15	14		PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Th227	WASTE	NAREL TH-EICHROM	0.0639898	0.1462624	0.2294491	PCI/GDRY	U
1100224	B1.11284D	RMA-WST14A	Th227	WASTE	NAREL TH-EICHROM	0.1645452	0.182828	0.1746007	PCI/GDRY	U
1100224	B1.11284D	RMA-WST14A	Th228	WASTE	NAREL TH-EICHROM	8.775744	1.096968	0.1480907	PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Th228	WASTE	NAREL GAM-01	13.4	6.7		PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Th228	WASTE	NAREL TH-EICHROM	9.59847	1.188382	0.2513885	PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Th230	WASTE	NAREL TH-EICHROM	2.230502	0.4753528	0.1279796	PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Th230	WASTE	NAREL TH-EICHROM	1.773432	0.4205044	0.09781298	PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Th232	WASTE	NAREL TH-EICHROM	9.049986	1.096968	0.1288937	PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Th232	WASTE	NAREL TH-EICHROM	9.324228	1.188382	0.1279796	PCI/GDRY	

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1100224	B1.11284D	RMA-WST14A	Th234	WASTE	NAREL GAM-01	1.55	0.29		PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	Tl208	WASTE	NAREL GAM-01	3.61	0.42		PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	U234	WASTE	NAREL U-EICHROM	1.426058	0.2833834	0.06417263	PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	U234	WASTE	NAREL U-EICHROM	1.608886	0.319949	0.06216152	PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	U235	WASTE	NAREL GAM-01	0.207	0.039		PCI/GDRY	R
1100224	B1.11284D	RMA-WST14A	U235	WASTE	NAREL U-EICHROM	0.1124392	0.07953018	0.06709787	PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	U235	WASTE	NAREL U-EICHROM	0.0777019	0.06947464	0.05621961	PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	U238	WASTE	NAREL U-EICHROM	1.453483	0.2833834	0.04232468	PCI/GDRY	
1100224	B1.11284D	RMA-WST14A	U238	WASTE	NAREL U-EICHROM	1.343786	0.2833834	0.06216152	PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Bi212	WASTE	NAREL GAM-01	11.2	1.3		PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Bi214	WASTE	NAREL GAM-01	2.2	0.26		PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Pa234m	WASTE	NAREL GAM-01	2.5	1.6		PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Pb212	WASTE	NAREL GAM-01	10.5	1.2		PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Pb214	WASTE	NAREL GAM-01	2.47	0.29		PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Ra223	WASTE	NAREL GAM-01	2.33	0.29		PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Ra226	WASTE	NAREL GAM-01	4.28	0.68		PCI/GDRY	R
1100224	B1.11285E	RMA-WST14B	Ra228	WASTE	NAREL GAM-01	11	1.3		PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Th227	WASTE	NAREL TH-EICHROM	0.2002264	0.2002264	0.1711026	PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Th228	WASTE	NAREL GAM-01	11.4	4.9		PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Th228	WASTE	NAREL TH-EICHROM	9.374236	1.183156	0.1929454	PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Th230	WASTE	NAREL TH-EICHROM	2.247996	0.4732624	0.0955626	PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Th232	WASTE	NAREL TH-EICHROM	10.46638	1.274168	0.1265067	PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Th234	WASTE	NAREL GAM-01	1.65	0.39		PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	Tl208	WASTE	NAREL GAM-01	3.47	0.4		PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	U234	WASTE	NAREL U-EICHROM	1.583609	0.3003396	0.06398144	PCI/GDRY	
1100224	B1.11285E	RMA-WST14B	U235	WASTE	NAREL U-EICHROM	0.04641612	0.05278696	0.05051166	PCI/GDRY	U
1100224	B1.11285E	RMA-WST14B	U235	WASTE	NAREL GAM-01	0.264	0.042		PCI/GDRY	R
1100224	B1.11285E	RMA-WST14B	U238	WASTE	NAREL U-EICHROM	1.883948	0.3367444	0.05588137	PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	Bi212	WASTE	NAREL GAM-01	11.1	1.3		PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	Bi214	WASTE	NAREL GAM-01	2.49	0.29		PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	Pa234m	WASTE	NAREL GAM-01	2	1.6		PCI/GDRY	

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1100224	B1.11286F	RMA-WST15A	Pb212	WASTE	NAREL GAM-01	10.2	1.2		PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	Pb214	WASTE	NAREL GAM-01	2.73	0.32		PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	Ra223	WASTE	NAREL GAM-01	2.34	0.29		PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	Ra226	WASTE	NAREL GAM-01	2.05	0.52		PCI/GDRY	R
1100224	B1.11286F	RMA-WST15A	Ra228	WASTE	NAREL GAM-01	10.9	1.3		PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	Th227	WASTE	NAREL TH-EICHROM	0.250292	0.214536	0.2163238	PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	Th228	WASTE	NAREL GAM-01	11.4	6.6		PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	Th228	WASTE	NAREL TH-EICHROM	9.38595	1.16207	0.1752044	PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	Th230	WASTE	NAREL TH-EICHROM	1.912946	0.429072	0.1215704	PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	Th232	WASTE	NAREL TH-EICHROM	9.20717	1.07268	0.1644776	PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	Tl208	WASTE	NAREL GAM-01	3.48	0.4		PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	U234	WASTE	NAREL U-EICHROM	1.358728	0.286048	0.06757884	PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	U235	WASTE	NAREL GAM-01	0.178	0.035		PCI/GDRY	R
1100224	B1.11286F	RMA-WST15A	U235	WASTE	NAREL U-EICHROM	0.151963	0.098329	0.08098734	PCI/GDRY	
1100224	B1.11286F	RMA-WST15A	U238	WASTE	NAREL U-EICHROM	1.394484	0.286048	0.0589974	PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Bi212	WASTE	NAREL GAM-01	13.1	1.6		PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Bi214	WASTE	NAREL GAM-01	3.1	0.36		PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Pa234m	WASTE	NAREL GAM-01	4.2	2		PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Pb212	WASTE	NAREL GAM-01	12.6	1.4		PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Pb214	WASTE	NAREL GAM-01	3.39	0.39		PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Ra223	WASTE	NAREL GAM-01	2.71	0.33		PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Ra226	WASTE	NAREL GAM-01	6.07	0.89		PCI/GDRY	R
1100224	B1.11287G	RMA-WST16A	Ra228	WASTE	NAREL GAM-01	12.7	1.5		PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Rn220	WASTE	NAREL GAM-01	13	13		PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Th227	WASTE	NAREL TH-EICHROM	0.2807484	0.2173536	0.1539588	PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Th228	WASTE	NAREL TH-EICHROM	9.871475	1.177332	0.1738829	PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Th228	WASTE	NAREL GAM-01	14.1	7.5		PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Th230	WASTE	NAREL TH-EICHROM	2.318438	0.4618764	0.08594523	PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Th232	WASTE	NAREL TH-EICHROM	9.690348	1.086768	0.1141106	PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Th234	WASTE	NAREL GAM-01	2.2	0.37		PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	Tl208	WASTE	NAREL GAM-01	4.1	0.47		PCI/GDRY	
1100224	B1.11287G	RMA-WST16A	U234	WASTE	NAREL U-EICHROM	1.630152	0.316974	0.06955315	PCI/GDRY	

Del_Group	Sample_ID	Client_ID	Analyte	Matrix	Procedure	Result	Uncertainty	MDCon	FinalUnits	Qualifier
1100224	B1.11287G	RMA-WST16A	U235	WASTE	NAREL U-EICHROM	0.07154556	0.06882863	0.0727229	PCI/GDRY	U
1100224	B1.11287G	RMA-WST16A	U235	WASTE	NAREL GAM-01	0.362	0.053		PCI/GDRY	R
1100224	B1.11287G	RMA-WST16A	U238	WASTE	NAREL U-EICHROM	2.064859	0.3713124	0.07661714	PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Bi212	WASTE	NAREL GAM-01	13.2	1.6		PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Bi214	WASTE	NAREL GAM-01	3.07	0.36		PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Pa234m	WASTE	NAREL GAM-01	3.4	1.6		PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Pb212	WASTE	NAREL GAM-01	12.4	1.4		PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Pb214	WASTE	NAREL GAM-01	3.33	0.39		PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Ra223	WASTE	NAREL GAM-01	2.64	0.32		PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Ra226	WASTE	NAREL GAM-01	5.77	0.83		PCI/GDRY	R
1100224	B1.11288H	RMA-WST16B	Ra228	WASTE	NAREL GAM-01	12.7	1.5		PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Rn220	WASTE	NAREL GAM-01	20	16		PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Th227	WASTE	NAREL TH-EICHROM	0.1910097	0.2092011	0.2355786	PCI/GDRY	U
1100224	B1.11288H	RMA-WST16B	Th228	WASTE	NAREL TH-EICHROM	10.18718	1.273398	0.2110202	PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Th228	WASTE	NAREL GAM-01	13.6	6.8		PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Th230	WASTE	NAREL TH-EICHROM	2.310308	0.4911678	0.1318876	PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Th232	WASTE	NAREL TH-EICHROM	10.82388	1.273398	0.1655417	PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Th234	WASTE	NAREL GAM-01	1.26	0.42		PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	Tl208	WASTE	NAREL GAM-01	4.09	0.47		PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	U234	WASTE	NAREL U-EICHROM	1.828236	0.363828	0.05148166	PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	U235	WASTE	NAREL GAM-01	0.362	0.052		PCI/GDRY	R
1100224	B1.11288H	RMA-WST16B	U235	WASTE	NAREL U-EICHROM	0.1091484	0.08731872	0.08158842	PCI/GDRY	
1100224	B1.11288H	RMA-WST16B	U238	WASTE	NAREL U-EICHROM	2.201159	0.4093065	0.08595436	PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Bi212	WASTE	NAREL GAM-01	14	1.6		PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Bi214	WASTE	NAREL GAM-01	3.29	0.38		PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Pa234m	WASTE	NAREL GAM-01	5.3	1.3		PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Pb210	WASTE	NAREL GAM-01	1.29	0.26		PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Pb212	WASTE	NAREL GAM-01	13.1	1.5		PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Pb214	WASTE	NAREL GAM-01	3.69	0.43		PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Ra223	WASTE	NAREL GAM-01	2.58	0.31		PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Ra226	WASTE	NAREL GAM-01	6.68	0.86		PCI/GDRY	R
1100224	B1.11289J	RMA-WST17A	Ra228	WASTE	NAREL GAM-01	13.3	1.5		PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Rn219	WASTE	NAREL GAM-01	0.18	0.11		PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Rn220	WASTE	NAREL GAM-01	13	11		PCI/GDRY	

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1100224	B1.11289J	RMA-WST17A	Th227	WASTE	NAREL TH-EICHROM	0.1873476	0.1873476	0.1652065	PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Th228	WASTE	NAREL GAM-01	13	4.6		PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Th228	WASTE	NAREL TH-EICHROM	11.24086	1.27737	0.2512161	PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Th230	WASTE	NAREL TH-EICHROM	2.869824	0.5450112	0.154136	PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Th232	WASTE	NAREL TH-EICHROM	10.64475	1.27737	0.1396591	PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Th234	WASTE	NAREL GAM-01	2.89	0.39		PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	Tl208	WASTE	NAREL GAM-01	4.09	0.47		PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	U234	WASTE	NAREL U-EICHROM	2.810214	0.5705586	0.1362528	PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	U235	WASTE	NAREL U-EICHROM	0.1618002	0.127737	0.1200728	PCI/GDRY	
1100224	B1.11289J	RMA-WST17A	U235	WASTE	NAREL GAM-01	0.405	0.052		PCI/GDRY	R
1100224	B1.11289J	RMA-WST17A	U238	WASTE	NAREL U-EICHROM	2.520677	0.5279796	0.1149633	PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Bi212	WASTE	NAREL GAM-01	12.3	1.4		PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Bi214	WASTE	NAREL GAM-01	3.01	0.35		PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Pa234m	WASTE	NAREL GAM-01	2.9	1.4		PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Pb212	WASTE	NAREL GAM-01	11.6	1.3		PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Pb214	WASTE	NAREL GAM-01	3.42	0.4		PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Ra223	WASTE	NAREL GAM-01	2.45	0.3		PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Ra226	WASTE	NAREL GAM-01	5.87	0.81		PCI/GDRY	R
1100224	B1.11290B	RMA-WST17B	Ra228	WASTE	NAREL GAM-01	11.7	1.3		PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Th227	WASTE	NAREL TH-EICHROM	0.1534539	0.180534	0.1697019	PCI/GDRY	U
1100224	B1.11290B	RMA-WST17B	Th228	WASTE	NAREL TH-EICHROM	8.665632	1.083204	0.1444272	PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Th228	WASTE	NAREL GAM-01	10.8	5.6		PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Th230	WASTE	NAREL TH-EICHROM	2.65385	0.5235486	0.09478035	PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Th232	WASTE	NAREL TH-EICHROM	8.665632	1.083204	0.1254711	PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Th234	WASTE	NAREL GAM-01	2.94	0.4		PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	Tl208	WASTE	NAREL GAM-01	3.69	0.43		PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	U234	WASTE	NAREL U-EICHROM	1.525512	0.3069078	0.06183289	PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	U235	WASTE	NAREL U-EICHROM	0.09839103	0.07943496	0.07401894	PCI/GDRY	
1100224	B1.11290B	RMA-WST17B	U235	WASTE	NAREL GAM-01	0.368	0.051		PCI/GDRY	R
1100224	B1.11290B	RMA-WST17B	U238	WASTE	NAREL U-EICHROM	2.085168	0.3791214	0.07076933	PCI/GDRY	

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1100224	B1.11291C	RMA-WST18A	Bi212	WASTE	NAREL GAM-01	15.8	1.9		PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Bi214	WASTE	NAREL GAM-01	3.87	0.45		PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Pa234m	WASTE	NAREL GAM-01	5.6	2.2		PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Pb212	WASTE	NAREL GAM-01	15.4	1.8		PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Pb214	WASTE	NAREL GAM-01	4.3	0.5		PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Ra223	WASTE	NAREL GAM-01	3.33	0.42		PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Ra226	WASTE	NAREL GAM-01	9.3	1.3		PCI/GDRY	R
1100224	B1.11291C	RMA-WST18A	Ra228	WASTE	NAREL GAM-01	15.2	1.8		PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Rn220	WASTE	NAREL GAM-01	22	17		PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Th227	WASTE	NAREL TH-EICHROM	0.2582711	0.2226475	0.2244287	PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Th228	WASTE	NAREL GAM-01	13.8	9		PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Th228	WASTE	NAREL TH-EICHROM	13.80414	1.514003	0.2458028	PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Th230	WASTE	NAREL TH-EICHROM	3.838443	0.6501307	0.1255732	PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Th232	WASTE	NAREL TH-EICHROM	13.98226	1.514003	0.1255732	PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Th234	WASTE	NAREL GAM-01	3.63	0.72		PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	Tl208	WASTE	NAREL GAM-01	4.94	0.57		PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	U234	WASTE	NAREL U-EICHROM	6.136165	0.8460605	0.06768484	PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	U235	WASTE	NAREL GAM-01	0.561	0.08		PCI/GDRY	R
1100224	B1.11291C	RMA-WST18A	U235	WASTE	NAREL U-EICHROM	0.3028006	0.1335885	0.07071285	PCI/GDRY	
1100224	B1.11291C	RMA-WST18A	U238	WASTE	NAREL U-EICHROM	5.744305	0.801531	0.07445332	PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Bi212	WASTE	NAREL GAM-01	15.6	1.9		PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Bi214	WASTE	NAREL GAM-01	3.46	0.4		PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Pa234m	WASTE	NAREL GAM-01	5.1	2.4		PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Pb212	WASTE	NAREL GAM-01	14.7	1.7		PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Pb214	WASTE	NAREL GAM-01	3.82	0.44		PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Ra223	WASTE	NAREL GAM-01	2.95	0.37		PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Ra226	WASTE	NAREL GAM-01	7.2	1.2		PCI/GDRY	R
1100224	B1.11292D	RMA-WST19A	Ra228	WASTE	NAREL GAM-01	14.6	1.7		PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Th227	WASTE	NAREL TH-EICHROM	0.3161592	0.2371194	0.1694965	PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Th228	WASTE	NAREL GAM-01	13	9		PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Th228	WASTE	NAREL TH-EICHROM	13.1733	1.492974	0.191452	PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Th230	WASTE	NAREL TH-EICHROM	3.767564	0.6411006	0.09484776	PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Th232	WASTE	NAREL TH-EICHROM	12.64637	1.405152	0.1255855	PCI/GDRY	

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1100224	B1.11292D	RMA-WST19A	Th234	WASTE	NAREL GAM-01	1.29	0.59		PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	Tl208	WASTE	NAREL GAM-01	4.63	0.54		PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	U234	WASTE	NAREL U-EICHROM	3.012295	0.4918032	0.05936767	PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	U235	WASTE	NAREL GAM-01	0.454	0.072		PCI/GDRY	R
1100224	B1.11292D	RMA-WST19A	U235	WASTE	NAREL U-EICHROM	0.1932084	0.1053864	0.07113582	PCI/GDRY	
1100224	B1.11292D	RMA-WST19A	U238	WASTE	NAREL U-EICHROM	2.766393	0.4566744	0.07482434	PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Bi212	WASTE	NAREL GAM-01	16.2	1.9		PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Bi214	WASTE	NAREL GAM-01	3.28	0.38		PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Pa234m	WASTE	NAREL GAM-01	4.2	2.2		PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Pb212	WASTE	NAREL GAM-01	16.1	1.9		PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Pb214	WASTE	NAREL GAM-01	3.74	0.44		PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Ra223	WASTE	NAREL GAM-01	3.06	0.39		PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Ra226	WASTE	NAREL GAM-01	7.2	1.2		PCI/GDRY	R
1100224	B1.11293E	RMA-WST20A	Ra228	WASTE	NAREL GAM-01	14.8	1.7		PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Th227	WASTE	NAREL TH-EICHROM	0.2160792	0.2070759	0.2214812	PCI/GDRY	U
1100224	B1.11293E	RMA-WST20A	Th228	WASTE	NAREL GAM-01	11.7	9.3		PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Th228	WASTE	NAREL TH-EICHROM	12.69465	1.440528	0.1791657	PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Th230	WASTE	NAREL TH-EICHROM	3.637333	0.6212277	0.1233452	PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Th232	WASTE	NAREL TH-EICHROM	12.42455	1.350495	0.1674614	PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Th234	WASTE	NAREL GAM-01	2.56	0.72		PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	Tl208	WASTE	NAREL GAM-01	5.09	0.59		PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	U234	WASTE	NAREL U-EICHROM	4.222548	0.630231	0.04456633	PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	U235	WASTE	NAREL U-EICHROM	0.1440528	0.090033	0.05329954	PCI/GDRY	
1100224	B1.11293E	RMA-WST20A	U235	WASTE	NAREL GAM-01	0.439	0.071		PCI/GDRY	R
1100224	B1.11293E	RMA-WST20A	U238	WASTE	NAREL U-EICHROM	3.763379	0.5762112	0.05897161	PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Bi212	WASTE	NAREL GAM-01	0.93	0.28		PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Bi214	WASTE	NAREL GAM-01	1.34	0.16		PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Pa234m	WASTE	NAREL GAM-01	2.7	1.8		PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Pb212	WASTE	NAREL GAM-01	0.9	0.11		PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Pb214	WASTE	NAREL GAM-01	1.45	0.17		PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Ra223	WASTE	NAREL GAM-01	0.32	0.1		PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Ra226	WASTE	NAREL GAM-01	2.73	0.54		PCI/GDRY	R
1100225	B1.11405U	ADP-WST41A	Ra228	WASTE	NAREL GAM-01	0.91	0.12		PCI/GDRY	

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1100225	B1.11405U	ADP-WST41A	Th227	WASTE	NAREL TH-EICHROM	0.0986011	0.0910164	0.07220635	PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Th227	WASTE	NAREL GAM-01	0.06	0.058		PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Th228	WASTE	NAREL TH-EICHROM	0.9177487	0.2047869	0.05187935	PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Th230	WASTE	NAREL TH-EICHROM	1.524525	0.2730492	0.0392129	PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Th232	WASTE	NAREL TH-EICHROM	0.9101641	0.1972022	0.03913705	PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Th234	WASTE	NAREL GAM-01	1.69	0.39		PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	Tl208	WASTE	NAREL GAM-01	0.258	0.038		PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	U234	WASTE	NAREL U-EICHROM	1.372831	0.2578798	0.05476153	PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	U235	WASTE	NAREL U-EICHROM	0.09025794	0.06143607	0.03928875	PCI/GDRY	
1100225	B1.11405U	ADP-WST41A	U235	WASTE	NAREL GAM-01	0.167	0.033		PCI/GDRY	R
1100225	B1.11405U	ADP-WST41A	U238	WASTE	NAREL U-EICHROM	1.395585	0.2578798	0.04346033	PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	Bi212	WASTE	NAREL GAM-01	0.44	0.35		PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	Bi214	WASTE	NAREL GAM-01	0.58	0.095		PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	Pb212	WASTE	NAREL GAM-01	0.605	0.093		PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	Pb214	WASTE	NAREL GAM-01	0.68	0.1		PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	Ra226	WASTE	NAREL GAM-01	1.2	0.64		PCI/GDRY	R
1100225	B1.11406V	ADP-WST41B	Ra228	WASTE	NAREL GAM-01	0.65	0.12		PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	Th227	WASTE	NAREL TH-EICHROM	0.034908	0.031999	0.02539557	PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	Th228	WASTE	NAREL TH-EICHROM	0.607981	0.104724	0.0229811	PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	Th230	WASTE	NAREL TH-EICHROM	0.584709	0.101815	0.01823943	PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	Th232	WASTE	NAREL TH-EICHROM	0.558528	0.098906	0.02085753	PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	Th234	WASTE	NAREL GAM-01	1.41	0.52		PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	Tl208	WASTE	NAREL GAM-01	0.208	0.04		PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	U234	WASTE	NAREL U-EICHROM	0.584709	0.101815	0.01506862	PCI/GDRY	
1100225	B1.11406V	ADP-WST41B	U235	WASTE	NAREL U-EICHROM	0.0439259	0.026181	0.02274838	PCI/GDRY	J
1100225	B1.11406V	ADP-WST41B	U238	WASTE	NAREL U-EICHROM	0.567255	0.098906	0.02047936	PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	Bi212	WASTE	NAREL GAM-01	0.75	0.29		PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	Bi214	WASTE	NAREL GAM-01	0.76	0.11		PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	Pb212	WASTE	NAREL GAM-01	0.739	0.098		PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	Pb214	WASTE	NAREL GAM-01	0.76	0.1		PCI/GDRY	

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1100225	B1.11407W	ADP-WST41C	Ra226	WASTE	NAREL GAM-01	1.65	0.53		PCI/GDRY	R
1100225	B1.11407W	ADP-WST41C	Ra228	WASTE	NAREL GAM-01	0.79	0.12		PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	Th227	WASTE	NAREL TH-EICHROM	0.041562	0.0380985	0.04190835	PCI/GDRY	U
1100225	B1.11407W	ADP-WST41C	Th227	WASTE	NAREL TH-EICHROM	0.083124	0.055416	0.04398645	PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	Th228	WASTE	NAREL TH-EICHROM	0.5991855	0.1142955	0.04190835	PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	Th228	WASTE	NAREL TH-EICHROM	0.7377256	0.131613	0.03238373	PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	Th230	WASTE	NAREL TH-EICHROM	0.7377256	0.1281495	0.03079052	PCI/GDRY	J
1100225	B1.11407W	ADP-WST41C	Th230	WASTE	NAREL TH-EICHROM	0.865875	0.145467	0.03238373	PCI/GDRY	J
1100225	B1.11407W	ADP-WST41C	Th232	WASTE	NAREL TH-EICHROM	0.7307985	0.1281495	0.02999391	PCI/GDRY	J
1100225	B1.11407W	ADP-WST41C	Th232	WASTE	NAREL TH-EICHROM	0.6927	0.1212225	0.02265129	PCI/GDRY	J
1100225	B1.11407W	ADP-WST41C	Tl208	WASTE	NAREL GAM-01	0.215	0.038		PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	U234	WASTE	NAREL U-EICHROM	0.7931415	0.145467	0.027708	PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	U234	WASTE	NAREL U-EICHROM	0.7100175	0.1212225	0.01780239	PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	U235	WASTE	NAREL U-EICHROM	0.0387912	0.0332496	0.0394839	PCI/GDRY	U
1100225	B1.11407W	ADP-WST41C	U235	WASTE	NAREL U-EICHROM	0.0221664	0.0200883	0.01610528	PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	U235	WASTE	NAREL GAM-01	0.105	0.033		PCI/GDRY	R
1100225	B1.11407W	ADP-WST41C	U238	WASTE	NAREL U-EICHROM	0.6823095	0.131613	0.02420986	PCI/GDRY	
1100225	B1.11407W	ADP-WST41C	U238	WASTE	NAREL U-EICHROM	0.5714775	0.103905	0.01780239	PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	Bi212	WASTE	NAREL GAM-01	0.96	0.27		PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	Bi214	WASTE	NAREL GAM-01	1.55	0.19		PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	Pa234m	WASTE	NAREL GAM-01	2.2	1.8		PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	Pb212	WASTE	NAREL GAM-01	1.01	0.12		PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	Pb214	WASTE	NAREL GAM-01	1.62	0.19		PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	Ra226	WASTE	NAREL GAM-01	3.1	0.53		PCI/GDRY	R
1100225	B1.11408X	ADP-WST42A	Ra228	WASTE	NAREL GAM-01	0.96	0.13		PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	Th227	WASTE	NAREL GAM-01	0.089	0.061		PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	Th227	WASTE	NAREL TH-EICHROM	0.185412	0.1158825	0.07269695	PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	Th228	WASTE	NAREL TH-EICHROM	0.896158	0.200863	0.09038835	PCI/GDRY	

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1100225	B1.11408X	ADP-WST42A	Th230	WASTE	NAREL TH-EICHROM	1.846395	0.30902	0.05237889	PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	Th232	WASTE	NAREL TH-EICHROM	1.004315	0.216314	0.05230163	PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	Tl208	WASTE	NAREL GAM-01	0.306	0.041		PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	U234	WASTE	NAREL U-EICHROM	1.506473	0.3012945	0.07269695	PCI/GDRY	
1100225	B1.11408X	ADP-WST42A	U235	WASTE	NAREL GAM-01	0.193	0.033		PCI/GDRY	R
1100225	B1.11408X	ADP-WST42A	U235	WASTE	NAREL U-EICHROM	0.0679844	0.0648942	0.06906597	PCI/GDRY	U
1100225	B1.11408X	ADP-WST42A	U238	WASTE	NAREL U-EICHROM	1.429218	0.293569	0.06605303	PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	Bi212	WASTE	NAREL GAM-01	0.96	0.2		PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	Bi214	WASTE	NAREL GAM-01	1.26	0.15		PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	Pb212	WASTE	NAREL GAM-01	0.776	0.096		PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	Pb214	WASTE	NAREL GAM-01	1.41	0.17		PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	Ra223	WASTE	NAREL GAM-01	0.223	0.068		PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	Ra226	WASTE	NAREL GAM-01	2.76	0.46		PCI/GDRY	R
1100225	B1.11409Y	ADP-WST42B	Ra228	WASTE	NAREL GAM-01	0.8	0.11		PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	Th227	WASTE	NAREL TH-EICHROM	0.051509	0.0566599	0.07623332	PCI/GDRY	U
1100225	B1.11409Y	ADP-WST42B	Th228	WASTE	NAREL TH-EICHROM	0.6387116	0.1390743	0.07674841	PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	Th230	WASTE	NAREL TH-EICHROM	1.272272	0.206036	0.04470981	PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	Th232	WASTE	NAREL TH-EICHROM	0.7108242	0.1442252	0.03765308	PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	Th234	WASTE	NAREL GAM-01	1.06	0.28		PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	Tl208	WASTE	NAREL GAM-01	0.234	0.033		PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	U234	WASTE	NAREL U-EICHROM	1.107444	0.206036	0.03399594	PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	U235	WASTE	NAREL GAM-01	0.172	0.028		PCI/GDRY	R
1100225	B1.11409Y	ADP-WST42B	U235	WASTE	NAREL U-EICHROM	0.04223738	0.03811666	0.03075087	PCI/GDRY	
1100225	B1.11409Y	ADP-WST42B	U238	WASTE	NAREL U-EICHROM	1.112594	0.206036	0.02565148	PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Bi212	WASTE	NAREL GAM-01	5.61	0.7		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Bi212	WASTE	NAREL GAM-01	5.76	0.73		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Bi214	WASTE	NAREL GAM-01	1.1	0.14		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Bi214	WASTE	NAREL GAM-01	1.09	0.13		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Pa234m	WASTE	NAREL GAM-01	1.8	1.5		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Pb212	WASTE	NAREL GAM-01	5.42	0.63		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Pb212	WASTE	NAREL GAM-01	5.27	0.61		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Pb214	WASTE	NAREL GAM-01	1.26	0.15		PCI/GDRY	

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1100225	B1.11410Q	FBS-WST44A	Pb214	WASTE	NAREL GAM-01	1.2	0.14		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Ra223	WASTE	NAREL GAM-01	1.2	0.16		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Ra226	WASTE	NAREL GAM-01	2.04	0.42		PCI/GDRY	R
1100225	B1.11410Q	FBS-WST44A	Ra226	WASTE	NAREL GAM-01	1.81	0.46		PCI/GDRY	R
1100225	B1.11410Q	FBS-WST44A	Ra228	WASTE	NAREL GAM-01	6.08	0.7		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Ra228	WASTE	NAREL GAM-01	6.02	0.7		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Th227	WASTE	NAREL TH-EICHROM	0.1720026	0.1250928	0.08365581	PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Th228	WASTE	NAREL TH-EICHROM	5.394627	0.6880104	0.1118017	PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Th228	WASTE	NAREL GAM-01	6.1	3.8		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Th230	WASTE	NAREL TH-EICHROM	1.016379	0.2267307	0.04550251	PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Th232	WASTE	NAREL TH-EICHROM	5.238261	0.6723738	0.07575933	PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Th234	WASTE	NAREL GAM-01	1.06	0.31		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Tl208	WASTE	NAREL GAM-01	1.75	0.2		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	Tl208	WASTE	NAREL GAM-01	1.71	0.2		PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	U234	WASTE	NAREL U-EICHROM	0.8521947	0.2032758	0.05183533	PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	U235	WASTE	NAREL GAM-01	0.114	0.029		PCI/GDRY	R
1100225	B1.11410Q	FBS-WST44A	U235	WASTE	NAREL U-EICHROM	0.06489189	0.05785542	0.0469098	PCI/GDRY	
1100225	B1.11410Q	FBS-WST44A	U235	WASTE	NAREL GAM-01	0.128	0.026		PCI/GDRY	R
1100225	B1.11410Q	FBS-WST44A	U238	WASTE	NAREL U-EICHROM	0.6645555	0.1720026	0.07044288	PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Bi212	WASTE	NAREL GAM-01	10.2	1.2		PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Bi214	WASTE	NAREL GAM-01	2.11	0.25		PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Pa234m	WASTE	NAREL GAM-01	2.7	1.4		PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Pb212	WASTE	NAREL GAM-01	9.6	1.1		PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Pb214	WASTE	NAREL GAM-01	2.29	0.27		PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Ra223	WASTE	NAREL GAM-01	2.12	0.27		PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Ra226	WASTE	NAREL GAM-01	4.69	0.69		PCI/GDRY	R
1100225	B1.11411R	FBS-WST45A	Ra228	WASTE	NAREL GAM-01	10.4	1.2		PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Th227	WASTE	NAREL TH-EICHROM	0.4256777	0.1911206	0.1025101	PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Th228	WASTE	NAREL GAM-01	6.5	5.3		PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Th228	WASTE	NAREL TH-EICHROM	10.25101	1.129349	0.06376478	PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Th230	WASTE	NAREL TH-EICHROM	2.328197	0.3648666	0.04204653	PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Th232	WASTE	NAREL TH-EICHROM	10.42476	1.129349	0.05559872	PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	Th234	WASTE	NAREL GAM-01	1.6	0.41		PCI/GDRY	

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1100225	B1.11411R	FBS-WST45A	Tl208	WASTE	NAREL GAM-01	3.18	0.37		PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	U234	WASTE	NAREL U-EICHROM	2.571441	0.434365	0.07306019	PCI/GDRY	
1100225	B1.11411R	FBS-WST45A	U235	WASTE	NAREL GAM-01	0.295	0.043		PCI/GDRY	R
1100225	B1.11411R	FBS-WST45A	U235	WASTE	NAREL U-EICHROM	0.05646745	0.0608111	0.06941152	PCI/GDRY	U
1100225	B1.11411R	FBS-WST45A	U238	WASTE	NAREL U-EICHROM	2.371633	0.4083031	0.05794429	PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Bi212	WASTE	NAREL GAM-01	6.9	0.89		PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Bi214	WASTE	NAREL GAM-01	1.34	0.16		PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Pb210	WASTE	NAREL GAM-01	0.87	0.38		PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Pb212	WASTE	NAREL GAM-01	6.98	0.81		PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Pb214	WASTE	NAREL GAM-01	1.57	0.19		PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Ra223	WASTE	NAREL GAM-01	1.53	0.22		PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Ra226	WASTE	NAREL GAM-01	2.33	0.57		PCI/GDRY	R
1100225	B1.11412T	FBS-WST46A	Ra228	WASTE	NAREL GAM-01	7.55	0.88		PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Th227	WASTE	NAREL TH-EICHROM	0.3327929	0.1704549	0.1030846	PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Th228	WASTE	NAREL TH-EICHROM	6.582806	0.7792224	0.1006496	PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Th228	WASTE	NAREL GAM-01	4.6	4.9		PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Th230	WASTE	NAREL TH-EICHROM	1.485393	0.2759746	0.04228905	PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Th232	WASTE	NAREL TH-EICHROM	7.548717	0.892859	0.04228905	PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Th234	WASTE	NAREL GAM-01	1.38	0.31		PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	Tl208	WASTE	NAREL GAM-01	2.22	0.26		PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	U234	WASTE	NAREL U-EICHROM	1.193184	0.2516239	0.06461053	PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	U235	WASTE	NAREL GAM-01	0.146	0.036		PCI/GDRY	R
1100225	B1.11412T	FBS-WST46A	U235	WASTE	NAREL U-EICHROM	0.07061703	0.06331182	0.0510553	PCI/GDRY	
1100225	B1.11412T	FBS-WST46A	U238	WASTE	NAREL U-EICHROM	1.193184	0.2516239	0.06461053	PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	Bi212	WASTE	NAREL GAM-01	9.2	1.1		PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	Bi214	WASTE	NAREL GAM-01	3.45	0.4		PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	Pa234m	WASTE	NAREL GAM-01	2.4	1.5		PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	Pb212	WASTE	NAREL GAM-01	8.41	0.97		PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	Pb214	WASTE	NAREL GAM-01	3.75	0.43		PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	Ra223	WASTE	NAREL GAM-01	1.78	0.23		PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	Ra226	WASTE	NAREL GAM-01	5.86	0.81		PCI/GDRY	R
1100225	B1.11413U	RMB-WST24A	Ra228	WASTE	NAREL GAM-01	8.9	1		PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	Th227	WASTE	NAREL TH-EICHROM	0.6690815	0.256634	0.1182349	PCI/GDRY	

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1100225	B1.11413U	RMB-WST24A	Th228	WASTE	NAREL TH-EICHROM	8.43226	1.008205	0.09257156	PCI/GDRY	J
1100225	B1.11413U	RMB-WST24A	Th228	WASTE	NAREL GAM-01	5.2	5.1		PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	Th230	WASTE	NAREL TH-EICHROM	3.235421	0.476606	0.06425016	PCI/GDRY	J
1100225	B1.11413U	RMB-WST24A	Th232	WASTE	NAREL TH-EICHROM	8.24895	0.91655	0.0641585	PCI/GDRY	J
1100225	B1.11413U	RMB-WST24A	Th234	WASTE	NAREL GAM-01	0.85	0.36		PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	Tl208	WASTE	NAREL GAM-01	2.69	0.31		PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	U234	WASTE	NAREL U-EICHROM	2.135561	0.384951	0.06269202	PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	U235	WASTE	NAREL U-EICHROM	0.06507505	0.06507505	0.05673445	PCI/GDRY	
1100225	B1.11413U	RMB-WST24A	U235	WASTE	NAREL GAM-01	0.368	0.051		PCI/GDRY	R
1100225	B1.11413U	RMB-WST24A	U238	WASTE	NAREL U-EICHROM	1.814769	0.348289	0.04738563	PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Bi212	WASTE	NAREL GAM-01	25.1	3		PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Bi214	WASTE	NAREL GAM-01	5.25	0.61		PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Pa234m	WASTE	NAREL GAM-01	5.1	2.6		PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Pb212	WASTE	NAREL GAM-01	24.5	2.8		PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Pb214	WASTE	NAREL GAM-01	5.87	0.68		PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Ra223	WASTE	NAREL GAM-01	5.34	0.65		PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Ra226	WASTE	NAREL GAM-01	10	1.5		PCI/GDRY	R
1100225	B1.11414V	RMB-WST28A	Ra228	WASTE	NAREL GAM-01	23.9	2.8		PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Rn220	WASTE	NAREL GAM-01	28	19		PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Th227	WASTE	NAREL TH-EICHROM	1.135138	0.3450818	0.1198705	PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Th228	WASTE	NAREL TH-EICHROM	20.34166	2.088653	0.09898399	PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Th228	WASTE	NAREL GAM-01	18	10		PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Th230	WASTE	NAREL TH-EICHROM	5.130822	0.6720014	0.0817299	PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Th232	WASTE	NAREL TH-EICHROM	20.79572	2.088653	0.06474824	PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	Tl208	WASTE	NAREL GAM-01	7.81	0.9		PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	U234	WASTE	NAREL U-EICHROM	2.352005	0.4177306	0.04776658	PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	U235	WASTE	NAREL GAM-01	0.605	0.091		PCI/GDRY	R
1100225	B1.11414V	RMB-WST28A	U235	WASTE	NAREL U-EICHROM	0.1997842	0.1089732	0.05721093	PCI/GDRY	
1100225	B1.11414V	RMB-WST28A	U238	WASTE	NAREL U-EICHROM	2.715249	0.4631361	0.04776658	PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Bi212	WASTE	NAREL GAM-01	7.71	0.91		PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Bi214	WASTE	NAREL GAM-01	2.9	0.33		PCI/GDRY	

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1100225	B1.11415W	RMB-WST29A	Pa234m	WASTE	NAREL GAM-01	3.9	1.1		PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Pb210	WASTE	NAREL GAM-01	1.25	0.22		PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Pb212	WASTE	NAREL GAM-01	7.28	0.84		PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Pb214	WASTE	NAREL GAM-01	3.16	0.36		PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Ra226	WASTE	NAREL GAM-01	5.2	0.66		PCI/GDRY	R
1100225	B1.11415W	RMB-WST29A	Ra228	WASTE	NAREL GAM-01	7.7	0.89		PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Rn220	WASTE	NAREL GAM-01	10.5	7.5		PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Th227	WASTE	NAREL TH-EICHROM	0.3168698	0.1677546	0.08583444	PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Th228	WASTE	NAREL TH-EICHROM	7.819229	0.9226503	0.09878882	PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Th228	WASTE	NAREL GAM-01	8.6	3.4		PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Th230	WASTE	NAREL TH-EICHROM	3.10346	0.465985	0.0465985	PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Th232	WASTE	NAREL TH-EICHROM	7.260046	0.8667321	0.07055013	PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Th234	WASTE	NAREL GAM-01	1.53	0.22		PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	Tl208	WASTE	NAREL GAM-01	2.29	0.26		PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	U234	WASTE	NAREL U-EICHROM	2.227408	0.4007471	0.04874203	PCI/GDRY	
1100225	B1.11415W	RMB-WST29A	U235	WASTE	NAREL GAM-01	0.314	0.04		PCI/GDRY	R
1100225	B1.11415W	RMB-WST29A	U238	WASTE	NAREL U-EICHROM	1.593669	0.3261895	0.08769838	PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	Bi212	WASTE	NAREL GAM-01	22	2.6		PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	Bi214	WASTE	NAREL GAM-01	4.79	0.56		PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	Pa234m	WASTE	NAREL GAM-01	3.9	2.6		PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	Pb212	WASTE	NAREL GAM-01	20.6	2.4		PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	Pb214	WASTE	NAREL GAM-01	5.22	0.61		PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	Ra226	WASTE	NAREL GAM-01	9.8	1.4		PCI/GDRY	R
1100225	B1.11416X	RMB-WST30A	Ra228	WASTE	NAREL GAM-01	21.3	2.5		PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	Rn220	WASTE	NAREL GAM-01	26	22		PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	Th227	WASTE	NAREL TH-EICHROM	0.7119527	0.2555728	0.0863471	PCI/GDRY	J
1100225	B1.11416X	RMB-WST30A	Th228	WASTE	NAREL TH-EICHROM	17.43372	1.82552	0.07128656	PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	Th230	WASTE	NAREL TH-EICHROM	4.481651	0.6024216	0.06225023	PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	Th232	WASTE	NAREL TH-EICHROM	17.25116	1.82552	0.08990686	PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	Tl208	WASTE	NAREL GAM-01	6.63	0.77		PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	U234	WASTE	NAREL U-EICHROM	3.176405	0.502018	0.07356846	PCI/GDRY	

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1100225	B1.11416X	RMB-WST30A	U235	WASTE	NAREL GAM-01	0.614	0.088		PCI/GDRY	R
1100225	B1.11416X	RMB-WST30A	U235	WASTE	NAREL U-EICHROM	0.09310152	0.07484632	0.06991742	PCI/GDRY	
1100225	B1.11416X	RMB-WST30A	U238	WASTE	NAREL U-EICHROM	3.295063	0.5202732	0.0669053	PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	Bi212	WASTE	NAREL GAM-01	17.1	2		PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	Bi214	WASTE	NAREL GAM-01	9.1	1.1		PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	Pa234m	WASTE	NAREL GAM-01	6.9	2.1		PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	Pb212	WASTE	NAREL GAM-01	16	1.8		PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	Pb214	WASTE	NAREL GAM-01	10.1	1.2		PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	Ra226	WASTE	NAREL GAM-01	16.5	2		PCI/GDRY	R
1100225	B1.11417Y	RMB-WST30B	Ra228	WASTE	NAREL GAM-01	16.4	1.9		PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	Rn219	WASTE	NAREL GAM-01	0.46	0.18		PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	Rn220	WASTE	NAREL GAM-01	22	18		PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	Th227	WASTE	NAREL TH-EICHROM	0.8512944	0.2868492	0.1119637	PCI/GDRY	J
1100225	B1.11417Y	RMB-WST30B	Th228	WASTE	NAREL GAM-01	17.6	7.3		PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	Th228	WASTE	NAREL TH-EICHROM	13.69474	1.480512	0.0766165	PCI/GDRY	J
1100225	B1.11417Y	RMB-WST30B	Th230	WASTE	NAREL TH-EICHROM	9.2532	1.017852	0.06079353	PCI/GDRY	J
1100225	B1.11417Y	RMB-WST30B	Th232	WASTE	NAREL TH-EICHROM	13.8798	1.480512	0.04580334	PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	Th234	WASTE	NAREL GAM-01	4.75	0.66		PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	Tl208	WASTE	NAREL GAM-01	5.01	0.58		PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	U234	WASTE	NAREL U-EICHROM	4.802411	0.7032432	0.0717123	PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	U235	WASTE	NAREL GAM-01	1	0.12		PCI/GDRY	R
1100225	B1.11417Y	RMB-WST30B	U235	WASTE	NAREL U-EICHROM	0.3516216	0.1480512	0.05662958	PCI/GDRY	
1100225	B1.11417Y	RMB-WST30B	U238	WASTE	NAREL U-EICHROM	4.783905	0.7032432	0.06255163	PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	Bi212	WASTE	NAREL GAM-01	7	0.85		PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	Bi214	WASTE	NAREL GAM-01	2.3	0.27		PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	Pa234m	WASTE	NAREL GAM-01	3.8	1.9		PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	Pb212	WASTE	NAREL GAM-01	6.56	0.76		PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	Pb214	WASTE	NAREL GAM-01	2.54	0.29		PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	Ra223	WASTE	NAREL GAM-01	1.52	0.2		PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	Ra226	WASTE	NAREL GAM-01	5.18	0.69		PCI/GDRY	R
1100225	B1.11418Z	RMB-WST32A	Ra228	WASTE	NAREL GAM-01	6.73	0.78		PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	Th227	WASTE	NAREL TH-EICHROM	0.33322	0.1582795	0.07147569	PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	Th228	WASTE	NAREL TH-EICHROM	6.289528	0.7414145	0.06972629	PCI/GDRY	J

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1100225	B1.11418Z	RMB-WST32A	Th228	WASTE	NAREL GAM-01	4.7	3.8		PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	Th230	WASTE	NAREL TH-EICHROM	2.124277	0.33322	0.03882013	PCI/GDRY	J
1100225	B1.11418Z	RMB-WST32A	Th232	WASTE	NAREL TH-EICHROM	5.781367	0.6914315	0.06464468	PCI/GDRY	J
1100225	B1.11418Z	RMB-WST32A	Th234	WASTE	NAREL GAM-01	1.83	0.4		PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	Tl208	WASTE	NAREL GAM-01	2.16	0.25		PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	U234	WASTE	NAREL U-EICHROM	3.232234	0.49983	0.06222883	PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	U235	WASTE	NAREL GAM-01	0.323	0.043		PCI/GDRY	R
1100225	B1.11418Z	RMB-WST32A	U235	WASTE	NAREL U-EICHROM	0.2582455	0.116627	0.04914995	PCI/GDRY	
1100225	B1.11418Z	RMB-WST32A	U238	WASTE	NAREL U-EICHROM	2.982319	0.4748385	0.05431486	PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Bi212	WASTE	NAREL GAM-01	9.7	1.2		PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Bi214	WASTE	NAREL GAM-01	3.98	0.46		PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Pa234m	WASTE	NAREL GAM-01	2.3	1.5		PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Pb212	WASTE	NAREL GAM-01	8.9	1		PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Pb214	WASTE	NAREL GAM-01	4.31	0.5		PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Ra223	WASTE	NAREL GAM-01	2.06	0.26		PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Ra226	WASTE	NAREL GAM-01	6.2	0.83		PCI/GDRY	R
1100225	B1.11419A	RMB-WST34A	Ra228	WASTE	NAREL GAM-01	9.6	1.1		PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Rn220	WASTE	NAREL GAM-01	12	11		PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Th227	WASTE	NAREL TH-EICHROM	0.4617943	0.2091144	0.0868696	PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Th228	WASTE	NAREL GAM-01	6.8	5.3		PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Th228	WASTE	NAREL TH-EICHROM	8.974493	1.045572	0.09061624	PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Th230	WASTE	NAREL TH-EICHROM	2.97988	0.4530812	0.06256006	PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Th232	WASTE	NAREL TH-EICHROM	8.7131	1.045572	0.047225	PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Th234	WASTE	NAREL GAM-01	1.51	0.38		PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	Tl208	WASTE	NAREL GAM-01	2.94	0.34		PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	U234	WASTE	NAREL U-EICHROM	1.74262	0.3310978	0.04574377	PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	U235	WASTE	NAREL U-EICHROM	0.1219834	0.087131	0.09148755	PCI/GDRY	
1100225	B1.11419A	RMB-WST34A	U235	WASTE	NAREL GAM-01	0.389	0.052		PCI/GDRY	R
1100225	B1.11419A	RMB-WST34A	U238	WASTE	NAREL U-EICHROM	1.071711	0.2439668	0.04574377	PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Bi212	WASTE	NAREL GAM-01	22.5	2.7		PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Bi214	WASTE	NAREL GAM-01	4.73	0.55		PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Pa234m	WASTE	NAREL GAM-01	5.1	2.8		PCI/GDRY	

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1100225	B1.11420T	RMB-WST36A	Pb212	WASTE	NAREL GAM-01	22.2	2.6		PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Pb214	WASTE	NAREL GAM-01	5.46	0.63		PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Ra223	WASTE	NAREL GAM-01	5.02	0.61		PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Ra226	WASTE	NAREL GAM-01	8.6	1.3		PCI/GDRY	R
1100225	B1.11420T	RMB-WST36A	Ra228	WASTE	NAREL GAM-01	21.7	2.5		PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Rn220	WASTE	NAREL GAM-01	35	22		PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Th227	WASTE	NAREL TH-EICHROM	0.775866	0.276458	0.09363899	PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Th228	WASTE	NAREL GAM-01	18.9	9.7		PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Th228	WASTE	NAREL TH-EICHROM	19.35206	2.05114	0.102557	PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Th230	WASTE	NAREL TH-EICHROM	5.181358	0.686686	0.05101096	PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Th232	WASTE	NAREL TH-EICHROM	18.81698	1.96196	0.06742008	PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Th234	WASTE	NAREL GAM-01	3.63	0.75		PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	Tl208	WASTE	NAREL GAM-01	7.03	0.81		PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	U234	WASTE	NAREL U-EICHROM	2.889432	0.463736	0.05645094	PCI/GDRY	
1100225	B1.11420T	RMB-WST36A	U235	WASTE	NAREL U-EICHROM	0.17836	0.098098	0.07740824	PCI/GDRY	J
1100225	B1.11420T	RMB-WST36A	U235	WASTE	NAREL GAM-01	0.512	0.076		PCI/GDRY	R
1100225	B1.11420T	RMB-WST36A	U238	WASTE	NAREL U-EICHROM	2.693236	0.436982	0.04262804	PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	Bi212	WASTE	NAREL GAM-01	25.8	3.1		PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	Bi214	WASTE	NAREL GAM-01	4.88	0.57		PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	Pa234m	WASTE	NAREL GAM-01	6.3	2.9		PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	Pb212	WASTE	NAREL GAM-01	24.1	2.8		PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	Pb214	WASTE	NAREL GAM-01	5.55	0.64		PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	Ra223	WASTE	NAREL GAM-01	5.03	0.62		PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	Ra226	WASTE	NAREL GAM-01	9.8	1.4		PCI/GDRY	R
1100225	B1.11421U	RMB-WST38A	Ra228	WASTE	NAREL GAM-01	24.5	2.8		PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	Th227	WASTE	NAREL TH-EICHROM	0.8497782	0.2803392	0.1068793	PCI/GDRY	J
1100225	B1.11421U	RMB-WST38A	Th228	WASTE	NAREL TH-EICHROM	21.20065	2.102544	0.07332622	PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	Th228	WASTE	NAREL GAM-01	14	14		PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	Th230	WASTE	NAREL TH-EICHROM	4.590554	0.6044814	0.07332622	PCI/GDRY	J
1100225	B1.11421U	RMB-WST38A	Th232	WASTE	NAREL TH-EICHROM	20.67502	2.102544	0.05808277	PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	Th234	WASTE	NAREL GAM-01	2.97	0.83		PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	Tl208	WASTE	NAREL GAM-01	7.55	0.87		PCI/GDRY	

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1100225	B1.11421U	RMB-WST38A	U234	WASTE	NAREL U-EICHROM	3.346549	0.525636	0.06789465	PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	U235	WASTE	NAREL GAM-01	0.599	0.086		PCI/GDRY	R
1100225	B1.11421U	RMB-WST38A	U235	WASTE	NAREL U-EICHROM	0.1664514	0.0963666	0.08129837	PCI/GDRY	
1100225	B1.11421U	RMB-WST38A	U238	WASTE	NAREL U-EICHROM	3.197619	0.5081148	0.06789465	PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Bi212	WASTE	NAREL GAM-01	12.4	1.6		PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Bi214	WASTE	NAREL GAM-01	4.47	0.52		PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Pa234m	WASTE	NAREL GAM-01	5.2	3		PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Pb212	WASTE	NAREL GAM-01	11.6	1.3		PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Pb214	WASTE	NAREL GAM-01	4.85	0.57		PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Ra223	WASTE	NAREL GAM-01	2.41	0.33		PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Ra226	WASTE	NAREL GAM-01	8.6	1.3		PCI/GDRY	R
1100225	B1.11422V	RMB-WST39A	Ra228	WASTE	NAREL GAM-01	12.1	1.4		PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Th227	WASTE	NAREL TH-EICHROM	0.5319657	0.2110975	0.1063931	PCI/GDRY	J
1100225	B1.11422V	RMB-WST39A	Th228	WASTE	NAREL GAM-01	14	13		PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Th228	WASTE	NAREL TH-EICHROM	10.63931	1.182146	0.06636905	PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Th230	WASTE	NAREL TH-EICHROM	4.382384	0.5826291	0.0437394	PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Th232	WASTE	NAREL TH-EICHROM	11.23039	1.182146	0.04365496	PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Th234	WASTE	NAREL GAM-01	2.64	0.7		PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	Tl208	WASTE	NAREL GAM-01	3.58	0.42		PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	U234	WASTE	NAREL U-EICHROM	2.828707	0.4559706	0.07591067	PCI/GDRY	
1100225	B1.11422V	RMB-WST39A	U235	WASTE	NAREL GAM-01	0.541	0.084		PCI/GDRY	R
1100225	B1.11422V	RMB-WST39A	U235	WASTE	NAREL U-EICHROM	0.1283473	0.08275022	0.05049452	PCI/GDRY	J
1100225	B1.11422V	RMB-WST39A	U238	WASTE	NAREL U-EICHROM	3.07358	0.4897462	0.05589862	PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Bi212	WASTE	NAREL GAM-01	19.2	2.3		PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Bi214	WASTE	NAREL GAM-01	5.01	0.58		PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Pa234m	WASTE	NAREL GAM-01	7.4	3.1		PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Pb212	WASTE	NAREL GAM-01	19.3	2.2		PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Pb214	WASTE	NAREL GAM-01	5.76	0.67		PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Ra223	WASTE	NAREL GAM-01	4.13	0.52		PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Ra226	WASTE	NAREL GAM-01	12.6	1.8		PCI/GDRY	R
1100225	B1.11423W	RMB-WST39B	Ra228	WASTE	NAREL GAM-01	19.4	2.2		PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Th227	WASTE	NAREL TH-EICHROM	0.7725984	0.275928	0.09059636	PCI/GDRY	

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1100225	B1.11423W	RMB-WST39B	Th228	WASTE	NAREL TH-EICHROM	16.4637	1.747544	0.1048526	PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Th228	WASTE	NAREL GAM-01	23	12		PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Th230	WASTE	NAREL TH-EICHROM	5.509362	0.7082152	0.08875684	PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Th232	WASTE	NAREL TH-EICHROM	15.7279	1.655568	0.08857289	PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Th234	WASTE	NAREL GAM-01	2.58	0.86		PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	Tl208	WASTE	NAREL GAM-01	5.99	0.69		PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	U234	WASTE	NAREL U-EICHROM	5.444979	0.7725984	0.07762774	PCI/GDRY	
1100225	B1.11423W	RMB-WST39B	U235	WASTE	NAREL U-EICHROM	0.2483352	0.1195688	0.08443397	PCI/GDRY	J
1100225	B1.11423W	RMB-WST39B	U235	WASTE	NAREL GAM-01	0.74	0.1		PCI/GDRY	R
1100225	B1.11423W	RMB-WST39B	U238	WASTE	NAREL U-EICHROM	4.856333	0.7082152	0.06162392	PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Bi212	WASTE	NAREL GAM-01	9.3	1.1		PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Bi214	WASTE	NAREL GAM-01	0.88	0.11		PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Pb212	WASTE	NAREL GAM-01	8.45	0.97		PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Pb214	WASTE	NAREL GAM-01	0.96	0.12		PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Ra223	WASTE	NAREL GAM-01	1.66	0.21		PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Ra226	WASTE	NAREL GAM-01	1.65	0.49		PCI/GDRY	R
1100225	B1.11424X	RMB-WST40A	Ra228	WASTE	NAREL GAM-01	9.4	1.1		PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Rn220	WASTE	NAREL GAM-01	15	12		PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Th227	WASTE	NAREL TH-EICHROM	0.3511818	0.189828	0.1224391	PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Th228	WASTE	NAREL GAM-01	5.6	4.9		PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Th228	WASTE	NAREL TH-EICHROM	9.871056	1.138968	0.08380906	PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Th230	WASTE	NAREL TH-EICHROM	1.08202	0.2467764	0.0664398	PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Th232	WASTE	NAREL TH-EICHROM	10.1558	1.138968	0.06634489	PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	Tl208	WASTE	NAREL GAM-01	2.7	0.31		PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	U234	WASTE	NAREL U-EICHROM	1.063037	0.2467764	0.06131444	PCI/GDRY	
1100225	B1.11424X	RMB-WST40A	U235	WASTE	NAREL U-EICHROM	0.05125356	0.05789754	0.05542978	PCI/GDRY	U
1100225	B1.11424X	RMB-WST40A	U235	WASTE	NAREL GAM-01	0.104	0.031		PCI/GDRY	R
1100225	B1.11424X	RMB-WST40A	U238	WASTE	NAREL U-EICHROM	0.8447346	0.2088108	0.04631803	PCI/GDRY	J
1100226	B1.11425Y	RMA-WST01B	Bi212	WASTE	NAREL GAM-01	12.1	1.4		PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	Bi214	WASTE	NAREL GAM-01	3.02	0.35		PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	Pa234m	WASTE	NAREL GAM-01	5.3	1.6		PCI/GDRY	

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1100226	B1.11425Y	RMA-WST01B	Pb210	WASTE	NAREL GAM-01	1.28	0.24		PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	Pb212	WASTE	NAREL GAM-01	11.3	1.3		PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	Pb214	WASTE	NAREL GAM-01	3.42	0.39		PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	Ra226	WASTE	NAREL GAM-01	6.21	0.78		PCI/GDRY	R
1100226	B1.11425Y	RMA-WST01B	Ra228	WASTE	NAREL GAM-01	11.4	1.3		PCI/GDRY	Q
1100226	B1.11425Y	RMA-WST01B	Rn220	WASTE	NAREL GAM-01	15	13		PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	Th227	WASTE	NAREL TH-EICHROM	0.2875616	0.1617534	0.08321314	PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	Th228	WASTE	NAREL TH-EICHROM	5.373807	0.6829588	0.08626848	PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	Th228	WASTE	NAREL GAM-01	12.2	4		PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	Th230	WASTE	NAREL TH-EICHROM	1.446794	0.2785753	0.05966903	PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	Th232	WASTE	NAREL TH-EICHROM	5.140163	0.6559999	0.05957917	PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	Th234	WASTE	NAREL GAM-01	2.69	0.36		PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	Tl208	WASTE	NAREL GAM-01	3.52	0.41		PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	U234	WASTE	NAREL U-EICHROM	1.159233	0.2426301	0.03989917	PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	U235	WASTE	NAREL U-EICHROM	0.1428822	0.08806574	0.07979834	PCI/GDRY	
1100226	B1.11425Y	RMA-WST01B	U235	WASTE	NAREL GAM-01	0.378	0.048		PCI/GDRY	R
1100226	B1.11425Y	RMA-WST01B	U238	WASTE	NAREL U-EICHROM	1.347945	0.269589	0.06056766	PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Bi212	WASTE	NAREL GAM-01	11.6	1.4		PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Bi214	WASTE	NAREL GAM-01	2.95	0.34		PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Pa234m	WASTE	NAREL GAM-01	5	1.6		PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Pb212	WASTE	NAREL GAM-01	11	1.3		PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Pb214	WASTE	NAREL GAM-01	3.4	0.39		PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Ra223	WASTE	NAREL GAM-01	2.22	0.27		PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Ra226	WASTE	NAREL GAM-01	2.95	0.46		PCI/GDRY	R
1100226	B1.11426Z	RMA-WST01C	Ra228	WASTE	NAREL GAM-01	11	1.3		PCI/GDRY	Q
1100226	B1.11426Z	RMA-WST01C	Rn220	WASTE	NAREL GAM-01	12.2	9		PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Th227	WASTE	NAREL TH-EICHROM	0.4141564	0.1890714	0.1089411	PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Th228	WASTE	NAREL TH-EICHROM	10.17384	1.170442	0.07436808	PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Th228	WASTE	NAREL GAM-01	9.3	3.6		PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Th230	WASTE	NAREL TH-EICHROM	3.043149	0.45017	0.04456683	PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Th232	WASTE	NAREL TH-EICHROM	10.62401	1.170442	0.05897227	PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Th234	WASTE	NAREL GAM-01	1.86	0.3		PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	Tl208	WASTE	NAREL GAM-01	3.37	0.39		PCI/GDRY	

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1100226	B1.11426Z	RMA-WST01C	U234	WASTE	NAREL U-EICHROM	2.764044	0.4321632	0.05176955	PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	U235	WASTE	NAREL GAM-01	0.205	0.03		PCI/GDRY	R
1100226	B1.11426Z	RMA-WST01C	U235	WASTE	NAREL U-EICHROM	0.09363537	0.07382789	0.08418179	PCI/GDRY	
1100226	B1.11426Z	RMA-WST01C	U238	WASTE	NAREL U-EICHROM	2.448925	0.3961496	0.03907476	PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Bi212	WASTE	NAREL GAM-01	15.4	1.9		PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Bi214	WASTE	NAREL GAM-01	3.37	0.4		PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Pa234m	WASTE	NAREL GAM-01	4.2	2.2		PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Pb212	WASTE	NAREL GAM-01	15	1.7		PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Pb214	WASTE	NAREL GAM-01	3.78	0.44		PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Ra223	WASTE	NAREL GAM-01	3.25	0.42		PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Ra226	WASTE	NAREL GAM-01	6.5	1.1		PCI/GDRY	R
1100226	B1.11427A	RMA-WST03B	Ra228	WASTE	NAREL GAM-01	14.8	1.7		PCI/GDRY	Q
1100226	B1.11427A	RMA-WST03B	Th227	WASTE	NAREL TH-EICHROM	0.7352451	0.2541588	0.08378163	PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Th228	WASTE	NAREL TH-EICHROM	13.16179	1.361565	0.0600904	PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Th228	WASTE	NAREL GAM-01	13	11		PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Th230	WASTE	NAREL TH-EICHROM	3.403913	0.4901634	0.06880442	PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Th232	WASTE	NAREL TH-EICHROM	12.70794	1.361565	0.08151236	PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Th234	WASTE	NAREL GAM-01	2.24	0.72		PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	Tl208	WASTE	NAREL GAM-01	4.76	0.55		PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	U234	WASTE	NAREL U-EICHROM	2.232967	0.3812382	0.0698029	PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	U235	WASTE	NAREL U-EICHROM	0.1724649	0.0998481	0.0663536	PCI/GDRY	
1100226	B1.11427A	RMA-WST03B	U235	WASTE	NAREL GAM-01	0.409	0.071		PCI/GDRY	R
1100226	B1.11427A	RMA-WST03B	U238	WASTE	NAREL U-EICHROM	2.641436	0.4357008	0.07524916	PCI/GDRY	
1100226	B1.11428B	RMA-WST10B	Bi212	WASTE	NAREL GAM-01	17	2		PCI/GDRY	
1100226	B1.11428B	RMA-WST10B	Bi214	WASTE	NAREL GAM-01	2.9	0.34		PCI/GDRY	
1100226	B1.11428B	RMA-WST10B	Pa234m	WASTE	NAREL GAM-01	4	1.9		PCI/GDRY	
1100226	B1.11428B	RMA-WST10B	Pb212	WASTE	NAREL GAM-01	15.6	1.8		PCI/GDRY	
1100226	B1.11428B	RMA-WST10B	Pb214	WASTE	NAREL GAM-01	3.28	0.38		PCI/GDRY	
1100226	B1.11428B	RMA-WST10B	Ra226	WASTE	NAREL GAM-01	6.06	0.91		PCI/GDRY	R
1100226	B1.11428B	RMA-WST10B	Ra228	WASTE	NAREL GAM-01	16.3	1.9		PCI/GDRY	Q
1100226	B1.11428B	RMA-WST10B	Th227	WASTE	NAREL TH-EICHROM	0.677355	0.2528792	0.1156019	PCI/GDRY	
1100226	B1.11428B	RMA-WST10B	Th228	WASTE	NAREL TH-EICHROM	15.53401	1.625652	0.09482969	PCI/GDRY	

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1100226	B1.11428B	RMA-WST10B	Th230	WASTE	NAREL TH-EICHROM	2.790703	0.4335072	0.06240698	PCI/GDRY	
1100226	B1.11428B	RMA-WST10B	Th232	WASTE	NAREL TH-EICHROM	15.62432	1.625652	0.07134806	PCI/GDRY	
1100226	B1.11428B	RMA-WST10B	Tl208	WASTE	NAREL GAM-01	5.12	0.59		PCI/GDRY	
1100226	B1.11428B	RMA-WST10B	U234	WASTE	NAREL U-EICHROM	2.592012	0.4335072	0.04461512	PCI/GDRY	
1100226	B1.11428B	RMA-WST10B	U235	WASTE	NAREL GAM-01	0.367	0.055		PCI/GDRY	R
1100226	B1.11428B	RMA-WST10B	U235	WASTE	NAREL U-EICHROM	0.1715966	0.0993454	0.05337557	PCI/GDRY	
1100226	B1.11428B	RMA-WST10B	U238	WASTE	NAREL U-EICHROM	2.420415	0.4154444	0.06764518	PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Bi212	WASTE	NAREL GAM-01	24.5	2.9		PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Bi214	WASTE	NAREL GAM-01	4.16	0.48		PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Pa234m	WASTE	NAREL GAM-01	7.4	2.8		PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Pb212	WASTE	NAREL GAM-01	23.5	2.7		PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Pb214	WASTE	NAREL GAM-01	4.83	0.56		PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Ra223	WASTE	NAREL GAM-01	5.08	0.61		PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Ra226	WASTE	NAREL GAM-01	8.5	1.2		PCI/GDRY	R
1100226	B1.11429C	RMA-WST12B	Ra228	WASTE	NAREL GAM-01	23.6	2.7		PCI/GDRY	Q
1100226	B1.11429C	RMA-WST12B	Rn220	WASTE	NAREL GAM-01	25	18		PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Th227	WASTE	NAREL TH-EICHROM	1.03491	0.311389	0.08444137	PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Th228	WASTE	NAREL TH-EICHROM	22.16357	2.19804	0.1218081	PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Th228	WASTE	NAREL GAM-01	27	11		PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Th230	WASTE	NAREL TH-EICHROM	3.947314	0.5403515	0.06053768	PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Th232	WASTE	NAREL TH-EICHROM	21.79723	2.19804	0.07619872	PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Th234	WASTE	NAREL GAM-01	3.69	0.77		PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	Tl208	WASTE	NAREL GAM-01	7.64	0.88		PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	U234	WASTE	NAREL U-EICHROM	3.571815	0.531193	0.04020582	PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	U235	WASTE	NAREL U-EICHROM	0.18317	0.1007435	0.06374316	PCI/GDRY	
1100226	B1.11429C	RMA-WST12B	U235	WASTE	NAREL GAM-01	0.535	0.077		PCI/GDRY	R
1100226	B1.11429C	RMA-WST12B	U238	WASTE	NAREL U-EICHROM	3.058939	0.476242	0.06099561	PCI/GDRY	
1100226	B1.11619G	ADP-SD49	Bi212	SEDIMENT	NAREL GAM-01	1.26	0.31		PCI/GDRY	
1100226	B1.11619G	ADP-SD49	Bi214	SEDIMENT	NAREL GAM-01	0.84	0.11		PCI/GDRY	
1100226	B1.11619G	ADP-SD49	Pa234m	SEDIMENT	NAREL GAM-01	1.9	1.7		PCI/GDRY	
1100226	B1.11619G	ADP-SD49	Pb212	SEDIMENT	NAREL GAM-01	1.27	0.15		PCI/GDRY	
1100226	B1.11619G	ADP-SD49	Pb214	SEDIMENT	NAREL GAM-01	0.92	0.12		PCI/GDRY	

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1100226	B1.11619G	ADP-SD49	Ra226	SEDIMENT	NAREL GAM-01	1.73	0.49		PCI/GDRY	R
1100226	B1.11619G	ADP-SD49	Ra228	SEDIMENT	NAREL GAM-01	1.34	0.17		PCI/GDRY	Q
1100226	B1.11619G	ADP-SD49	Th227	SEDIMENT	NAREL TH-EICHROM	0.0820386	0.0703188	0.07090479	PCI/GDRY	
1100226	B1.11619G	ADP-SD49	Th228	SEDIMENT	NAREL TH-EICHROM	1.277458	0.2226762	0.05566905	PCI/GDRY	
1100226	B1.11619G	ADP-SD49	Th230	SEDIMENT	NAREL TH-EICHROM	0.9668835	0.1816569	0.0291237	PCI/GDRY	
1100226	B1.11619G	ADP-SD49	Th232	SEDIMENT	NAREL TH-EICHROM	1.078222	0.1992366	0.04406645	PCI/GDRY	
1100226	B1.11619G	ADP-SD49	Tl208	SEDIMENT	NAREL GAM-01	0.407	0.055		PCI/GDRY	
1100226	B1.11619G	ADP-SD49	U234	SEDIMENT	NAREL U-EICHROM	0.8145261	0.175797	0.05977098	PCI/GDRY	
1100226	B1.11619G	ADP-SD49	U235	SEDIMENT	NAREL U-EICHROM	0.05215311	0.04512123	0.04488683	PCI/GDRY	
1100226	B1.11619G	ADP-SD49	U235	SEDIMENT	NAREL GAM-01	0.108	0.03		PCI/GDRY	R
1100226	B1.11619G	ADP-SD49	U238	SEDIMENT	NAREL U-EICHROM	0.6856083	0.1523574	0.02830332	PCI/GDRY	
1100226	B1.11620Z	BG-S01	Bi214	SOIL	NAREL GAM-01	0.061	0.012		PCI/GDRY	
1100226	B1.11620Z	BG-S01	Bi214	SOIL	NAREL GAM-01	0.032	0.017		PCI/GDRY	
1100226	B1.11620Z	BG-S01	Pb210	SOIL	NAREL GAM-01	0.186	0.085		PCI/GDRY	
1100226	B1.11620Z	BG-S01	Pb212	SOIL	NAREL GAM-01	0.0295	0.0068		PCI/GDRY	
1100226	B1.11620Z	BG-S01	Pb214	SOIL	NAREL GAM-01	0.07	0.012		PCI/GDRY	
1100226	B1.11620Z	BG-S01	Ra226	SOIL	NAREL GAM-01	0.094	0.093		PCI/GDRY	R
1100226	B1.11620Z	BG-S01	Ra226	SOIL	NAREL GAM-01			0.226	PCI/GDRY	U
1100226	B1.11620Z	BG-S01	Ra228	SOIL	NAREL GAM-01	0.026	0.01		PCI/GDRY	Q
1100226	B1.11620Z	BG-S01	Ra228	SOIL	NAREL GAM-01			0.0897	PCI/GDRY	U
1100226	B1.11620Z	BG-S01	Th227	SOIL	NAREL TH-EICHROM	0	0.0717858	0.1473498	PCI/GDRY	U
1100226	B1.11620Z	BG-S01	Th228	SOIL	NAREL TH-EICHROM	0.03683745	0.0774531	0.1331816	PCI/GDRY	U
1100226	B1.11620Z	BG-S01	Th230	SOIL	NAREL TH-EICHROM	0.151128	0.1227915	0.1331816	PCI/GDRY	J
1100226	B1.11620Z	BG-S01	Th232	SOIL	NAREL TH-EICHROM	0.03683745	0.06517395	0.07953111	PCI/GDRY	U
1100226	B1.11620Z	BG-S01	Th234	SOIL	NAREL GAM-01	0.05	0.036		PCI/GDRY	
1100226	B1.11620Z	BG-S01	Tl208	SOIL	NAREL GAM-01	0.0096	0.0038		PCI/GDRY	
1100226	B1.11620Z	BG-S01	Tl208	SOIL	NAREL GAM-01	0.0128	0.0084		PCI/GDRY	
1100226	B1.11620Z	BG-S01	U234	SOIL	NAREL U-EICHROM	0.03494835	0.0491166	0.0698967	PCI/GDRY	U
1100226	B1.11620Z	BG-S01	U235	SOIL	NAREL U-EICHROM	0.01227915	0.0472275	0.09209362	PCI/GDRY	U
1100226	B1.11620Z	BG-S01	U238	SOIL	NAREL U-EICHROM	0.1171242	0.07461946	0.04609404	PCI/GDRY	

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1100226	B1.11621A	BG-S07	Bi212	SOIL	NAREL GAM-01	0.46	0.17		PCI/GDRY	
1100226	B1.11621A	BG-S07	Bi214	SOIL	NAREL GAM-01	0.368	0.051		PCI/GDRY	
1100226	B1.11621A	BG-S07	Pb212	SOIL	NAREL GAM-01	0.503	0.065		PCI/GDRY	
1100226	B1.11621A	BG-S07	Pb214	SOIL	NAREL GAM-01	0.393	0.054		PCI/GDRY	
1100226	B1.11621A	BG-S07	Ra226	SOIL	NAREL GAM-01	0.63	0.28		PCI/GDRY	R
1100226	B1.11621A	BG-S07	Ra228	SOIL	NAREL GAM-01	0.529	0.075		PCI/GDRY	Q
1100226	B1.11621A	BG-S07	Th227	SOIL	NAREL TH-EICHROM	0.04835367	0.07465128	0.1043421	PCI/GDRY	U
1100226	B1.11621A	BG-S07	Th227	SOIL	NAREL TH-EICHROM	0.05598846	0.0763479	0.08143776	PCI/GDRY	U
1100226	B1.11621A	BG-S07	Th228	SOIL	NAREL TH-EICHROM	0.8058945	0.1951113	0.07931699	PCI/GDRY	
1100226	B1.11621A	BG-S07	Th228	SOIL	NAREL TH-EICHROM	0.7040973	0.1781451	0.05632778	PCI/GDRY	
1100226	B1.11621A	BG-S07	Th230	SOIL	NAREL TH-EICHROM	0.678648	0.1781451	0.04411212	PCI/GDRY	
1100226	B1.11621A	BG-S07	Th230	SOIL	NAREL TH-EICHROM	0.6192663	0.169662	0.04258516	PCI/GDRY	
1100226	B1.11621A	BG-S07	Th232	SOIL	NAREL TH-EICHROM	0.5005029	0.1526958	0.06676199	PCI/GDRY	
1100226	B1.11621A	BG-S07	Th232	SOIL	NAREL TH-EICHROM	0.5344353	0.1526958	0.08135293	PCI/GDRY	
1100226	B1.11621A	BG-S07	Tl208	SOIL	NAREL GAM-01	0.146	0.023		PCI/GDRY	
1100226	B1.11621A	BG-S07	U234	SOIL	NAREL U-EICHROM	0.2884254	0.1102803	0.04165202	PCI/GDRY	J
1100226	B1.11621A	BG-S07	U234	SOIL	NAREL U-EICHROM	0.2375268	0.1017972	0.04012506	PCI/GDRY	J
1100226	B1.11621A	BG-S07	U235	SOIL	NAREL U-EICHROM	0.03478071	0.04665705	0.04988063	PCI/GDRY	U
1100226	B1.11621A	BG-S07	U235	SOIL	NAREL U-EICHROM	0.01102803	0.03223578	0.04801435	PCI/GDRY	U
1100226	B1.11621A	BG-S07	U235	SOIL	NAREL GAM-01	0.04	0.017		PCI/GDRY	R
1100226	B1.11621A	BG-S07	U238	SOIL	NAREL U-EICHROM	0.2799423	0.1102803	0.06693166	PCI/GDRY	
1100226	B1.11621A	BG-S07	U238	SOIL	NAREL U-EICHROM	0.254493	0.1017972	0.0631991	PCI/GDRY	
1100226	B1.11622B	BG-S08	Bi212	SOIL	NAREL GAM-01	0.52	0.16		PCI/GDRY	
1100226	B1.11622B	BG-S08	Bi214	SOIL	NAREL GAM-01	0.281	0.041		PCI/GDRY	
1100226	B1.11622B	BG-S08	Pb212	SOIL	NAREL GAM-01	0.348	0.046		PCI/GDRY	
1100226	B1.11622B	BG-S08	Pb214	SOIL	NAREL GAM-01	0.294	0.04		PCI/GDRY	
1100226	B1.11622B	BG-S08	Ra226	SOIL	NAREL GAM-01	0.59	0.22		PCI/GDRY	R
1100226	B1.11622B	BG-S08	Ra228	SOIL	NAREL GAM-01	0.391	0.057		PCI/GDRY	Q
1100226	B1.11622B	BG-S08	Th227	SOIL	NAREL TH-EICHROM	0.085464	0.0940104	0.1042661	PCI/GDRY	U

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1100226	B1.11622B	BG-S08	Th228	SOIL	NAREL TH-EICHROM	0.4358664	0.1452888	0.08153266	PCI/GDRY	
1100226	B1.11622B	BG-S08	Th230	SOIL	NAREL TH-EICHROM	0.3589488	0.128196	0.06461078	PCI/GDRY	
1100226	B1.11622B	BG-S08	Th232	SOIL	NAREL TH-EICHROM	0.4444128	0.1367424	0.04256107	PCI/GDRY	
1100226	B1.11622B	BG-S08	Tl208	SOIL	NAREL GAM-01	0.105	0.018		PCI/GDRY	
1100226	B1.11622B	BG-S08	U234	SOIL	NAREL U-EICHROM	0.2307528	0.1025568	0.07136244	PCI/GDRY	J
1100226	B1.11622B	BG-S08	U235	SOIL	NAREL GAM-01	0.037	0.014		PCI/GDRY	R
1100226	B1.11622B	BG-S08	U235	SOIL	NAREL U-EICHROM	0.05469696	0.05897016	0.06777295	PCI/GDRY	U
1100226	B1.11622B	BG-S08	U238	SOIL	NAREL U-EICHROM	0.2392992	0.1025568	0.05657717	PCI/GDRY	
1100226	B1.11623C	BG-S09	Bi212	SOIL	NAREL GAM-01	0.171	0.082		PCI/GDRY	
1100226	B1.11623C	BG-S09	Bi214	SOIL	NAREL GAM-01	0.164	0.023		PCI/GDRY	
1100226	B1.11623C	BG-S09	Pb212	SOIL	NAREL GAM-01	0.151	0.02		PCI/GDRY	
1100226	B1.11623C	BG-S09	Pb214	SOIL	NAREL GAM-01	0.171	0.022		PCI/GDRY	
1100226	B1.11623C	BG-S09	Ra226	SOIL	NAREL GAM-01	0.33	0.082		PCI/GDRY	R
1100226	B1.11623C	BG-S09	Ra228	SOIL	NAREL GAM-01	0.157	0.025		PCI/GDRY	Q
1100226	B1.11623C	BG-S09	Th227	SOIL	NAREL TH-EICHROM	0.05345247	0.08412192	0.1305642	PCI/GDRY	U
1100226	B1.11623C	BG-S09	Th228	SOIL	NAREL TH-EICHROM	0.1235541	0.08412192	0.09989478	PCI/GDRY	J
1100226	B1.11623C	BG-S09	Th230	SOIL	NAREL TH-EICHROM	0.152471	0.08149311	0.05590603	PCI/GDRY	J
1100226	B1.11623C	BG-S09	Th232	SOIL	NAREL TH-EICHROM	0.1454608	0.07886431	0.04214859	PCI/GDRY	
1100226	B1.11623C	BG-S09	Th234	SOIL	NAREL GAM-01	0.085	0.055		PCI/GDRY	
1100226	B1.11623C	BG-S09	Tl208	SOIL	NAREL GAM-01	0.0439	0.0078		PCI/GDRY	
1100226	B1.11623C	BG-S09	U234	SOIL	NAREL U-EICHROM	0.262881	0.1139151	0.06028738	PCI/GDRY	J
1100226	B1.11623C	BG-S09	U235	SOIL	NAREL U-EICHROM	0.01226778	0.03680334	0.05450399	PCI/GDRY	U
1100226	B1.11623C	BG-S09	U238	SOIL	NAREL U-EICHROM	0.1533473	0.08587446	0.06028738	PCI/GDRY	
1100226	B1.11624D	BG-S10	Bi212	SOIL	NAREL GAM-01	0.36	0.11		PCI/GDRY	
1100226	B1.11624D	BG-S10	Bi214	SOIL	NAREL GAM-01	0.235	0.036		PCI/GDRY	
1100226	B1.11624D	BG-S10	Pb212	SOIL	NAREL GAM-01	0.297	0.039		PCI/GDRY	
1100226	B1.11624D	BG-S10	Pb214	SOIL	NAREL GAM-01	0.257	0.035		PCI/GDRY	
1100226	B1.11624D	BG-S10	Ra223	SOIL	NAREL GAM-01	0.097	0.038		PCI/GDRY	
1100226	B1.11624D	BG-S10	Ra226	SOIL	NAREL GAM-01	0.6	0.2		PCI/GDRY	R
1100226	B1.11624D	BG-S10	Ra228	SOIL	NAREL GAM-01	0.303	0.048		PCI/GDRY	Q

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1100226	B1.11624D	BG-S10	Th227	SOIL	NAREL TH-EICHROM	0	0.0433565	0.09018152	PCI/GDRY	U
1100226	B1.11624D	BG-S10	Th228	SOIL	NAREL TH-EICHROM	0.3902085	0.1474121	0.1031885	PCI/GDRY	J
1100226	B1.11624D	BG-S10	Th230	SOIL	NAREL TH-EICHROM	0.5116067	0.1647547	0.06442776	PCI/GDRY	
1100226	B1.11624D	BG-S10	Th232	SOIL	NAREL TH-EICHROM	0.2514677	0.1127269	0.09278291	PCI/GDRY	
1100226	B1.11624D	BG-S10	Tl208	SOIL	NAREL GAM-01	0.1	0.016		PCI/GDRY	
1100226	B1.11624D	BG-S10	U234	SOIL	NAREL U-EICHROM	0.2167825	0.0953843	0.05575646	PCI/GDRY	J
1100226	B1.11624D	BG-S10	U235	SOIL	NAREL U-EICHROM	0.02341251	0.04075511	0.05046697	PCI/GDRY	U
1100226	B1.11624D	BG-S10	U235	SOIL	NAREL GAM-01	0.038	0.012		PCI/GDRY	R
1100226	B1.11624D	BG-S10	U238	SOIL	NAREL U-EICHROM	0.1292024	0.07717457	0.06390748	PCI/GDRY	
1100226	B1.11625E	BG-S11	Bi212	SOIL	NAREL GAM-01	0.21	0.15		PCI/GDRY	
1100226	B1.11625E	BG-S11	Bi214	SOIL	NAREL GAM-01	0.162	0.03		PCI/GDRY	
1100226	B1.11625E	BG-S11	Pb212	SOIL	NAREL GAM-01	0.213	0.034		PCI/GDRY	
1100226	B1.11625E	BG-S11	Pb214	SOIL	NAREL GAM-01	0.17	0.031		PCI/GDRY	
1100226	B1.11625E	BG-S11	Ra226	SOIL	NAREL GAM-01	0.31	0.28		PCI/GDRY	R
1100226	B1.11625E	BG-S11	Ra228	SOIL	NAREL GAM-01	0.236	0.046		PCI/GDRY	Q
1100226	B1.11625E	BG-S11	Th227	SOIL	NAREL TH-EICHROM	-0.00721848	0.0451155	0.1182026	PCI/GDRY	U
1100226	B1.11625E	BG-S11	Th228	SOIL	NAREL TH-EICHROM	0.3519009	0.1353465	0.1109841	PCI/GDRY	J
1100226	B1.11625E	BG-S11	Th230	SOIL	NAREL TH-EICHROM	0.2887392	0.1173003	0.04827359	PCI/GDRY	J
1100226	B1.11625E	BG-S11	Th232	SOIL	NAREL TH-EICHROM	0.270693	0.1173003	0.08039583	PCI/GDRY	
1100226	B1.11625E	BG-S11	Tl208	SOIL	NAREL GAM-01	0.077	0.015		PCI/GDRY	
1100226	B1.11625E	BG-S11	U234	SOIL	NAREL U-EICHROM	0.2436237	0.0992541	0.04051372	PCI/GDRY	J
1100226	B1.11625E	BG-S11	U235	SOIL	NAREL U-EICHROM	0.03338547	0.0451155	0.04854428	PCI/GDRY	U
1100226	B1.11625E	BG-S11	U235	SOIL	NAREL GAM-01	0.02	0.017		PCI/GDRY	R
1100226	B1.11625E	BG-S11	U238	SOIL	NAREL U-EICHROM	0.1985082	0.090231	0.06144731	PCI/GDRY	
1100226	B1.11626F	BG-S12	Bi212	SOIL	NAREL GAM-01	0.76	0.21		PCI/GDRY	
1100226	B1.11626F	BG-S12	Bi214	SOIL	NAREL GAM-01	0.574	0.072		PCI/GDRY	
1100226	B1.11626F	BG-S12	Pb212	SOIL	NAREL GAM-01	0.703	0.086		PCI/GDRY	
1100226	B1.11626F	BG-S12	Pb214	SOIL	NAREL GAM-01	0.589	0.073		PCI/GDRY	
1100226	B1.11626F	BG-S12	Ra226	SOIL	NAREL GAM-01	0.93	0.27		PCI/GDRY	R
1100226	B1.11626F	BG-S12	Ra228	SOIL	NAREL GAM-01	0.741	0.097		PCI/GDRY	Q

Del_Group	Sample_ID	Client_ID	Analyte	Matrix	Procedure	Result	Uncertainty	MDCon	FinalUnits	Qualifier
1100226	B1.11626F	BG-S12	Th227	SOIL	NAREL TH-EICHROM	0.0415426	0.072248	0.08922628	PCI/GDRY	U
1100226	B1.11626F	BG-S12	Th228	SOIL	NAREL TH-EICHROM	0.9753481	0.234806	0.1065658	PCI/GDRY	
1100226	B1.11626F	BG-S12	Th230	SOIL	NAREL TH-EICHROM	0.857945	0.216744	0.07306079	PCI/GDRY	
1100226	B1.11626F	BG-S12	Th232	SOIL	NAREL TH-EICHROM	0.731511	0.198682	0.08019528	PCI/GDRY	
1100226	B1.11626F	BG-S12	Tl208	SOIL	NAREL GAM-01	0.222	0.03		PCI/GDRY	
1100226	B1.11626F	BG-S12	U234	SOIL	NAREL U-EICHROM	0.252868	0.108372	0.06944839	PCI/GDRY	J
1100226	B1.11626F	BG-S12	U235	SOIL	NAREL GAM-01	0.058	0.017		PCI/GDRY	R
1100226	B1.11626F	BG-S12	U235	SOIL	NAREL U-EICHROM	0.0045155	0.0388333	0.08317551	PCI/GDRY	U
1100226	B1.11626F	BG-S12	U238	SOIL	NAREL U-EICHROM	0.316085	0.126434	0.06068832	PCI/GDRY	
1100226	B1.11627G	BG-S13	Bi212	SOIL	NAREL GAM-01	0.5	0.18		PCI/GDRY	
1100226	B1.11627G	BG-S13	Bi214	SOIL	NAREL GAM-01	0.366	0.052		PCI/GDRY	
1100226	B1.11627G	BG-S13	Pb212	SOIL	NAREL GAM-01	0.446	0.059		PCI/GDRY	
1100226	B1.11627G	BG-S13	Pb214	SOIL	NAREL GAM-01	0.382	0.052		PCI/GDRY	
1100226	B1.11627G	BG-S13	Ra223	SOIL	NAREL GAM-01	0.144	0.054		PCI/GDRY	
1100226	B1.11627G	BG-S13	Ra226	SOIL	NAREL GAM-01	0.65	0.27		PCI/GDRY	R
1100226	B1.11627G	BG-S13	Ra228	SOIL	NAREL GAM-01	0.472	0.069		PCI/GDRY	Q
1100226	B1.11627G	BG-S13	Th227	SOIL	NAREL TH-EICHROM	0.1448587	0.1107743	0.1065138	PCI/GDRY	
1100226	B1.11627G	BG-S13	Th228	SOIL	NAREL TH-EICHROM	0.6220403	0.1874642	0.1533798	PCI/GDRY	
1100226	B1.11627G	BG-S13	Th230	SOIL	NAREL TH-EICHROM	0.426055	0.1363376	0.04328719	PCI/GDRY	
1100226	B1.11627G	BG-S13	Th232	SOIL	NAREL TH-EICHROM	0.3664073	0.1278165	0.05726179	PCI/GDRY	
1100226	B1.11627G	BG-S13	Tl208	SOIL	NAREL GAM-01	0.134	0.021		PCI/GDRY	
1100226	B1.11627G	BG-S13	U234	SOIL	NAREL U-EICHROM	0.1601967	0.08095045	0.05197871	PCI/GDRY	J
1100226	B1.11627G	BG-S13	U235	SOIL	NAREL GAM-01	0.041	0.017		PCI/GDRY	R
1100226	B1.11627G	BG-S13	U235	SOIL	NAREL U-EICHROM	0.04004917	0.04942238	0.06228924	PCI/GDRY	U
1100226	B1.11627G	BG-S13	U238	SOIL	NAREL U-EICHROM	0.2130275	0.0937321	0.05956249	PCI/GDRY	
1100226	B1.11628H	BG-S14	Bi212	SOIL	NAREL GAM-01	0.46	0.19		PCI/GDRY	
1100226	B1.11628H	BG-S14	Bi214	SOIL	NAREL GAM-01	0.439	0.06		PCI/GDRY	
1100226	B1.11628H	BG-S14	Pb212	SOIL	NAREL GAM-01	0.455	0.061		PCI/GDRY	
1100226	B1.11628H	BG-S14	Pb214	SOIL	NAREL GAM-01	0.496	0.066		PCI/GDRY	
1100226	B1.11628H	BG-S14	Ra223	SOIL	NAREL GAM-01	0.151	0.065		PCI/GDRY	

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1100226	B1.11628H	BG-S14	Ra226	SOIL	NAREL GAM-01	0.94	0.3		PCI/GDRY	R
1100226	B1.11628H	BG-S14	Ra228	SOIL	NAREL GAM-01	0.474	0.072		PCI/GDRY	Q
1100226	B1.11628H	BG-S14	Th227	SOIL	NAREL TH-EICHROM	0.0125055	0.0550242	0.1058799	PCI/GDRY	U
1100226	B1.11628H	BG-S14	Th228	SOIL	NAREL TH-EICHROM	0.508557	0.158403	0.0950418	PCI/GDRY	
1100226	B1.11628H	BG-S14	Th230	SOIL	NAREL TH-EICHROM	0.525231	0.150066	0.04326903	PCI/GDRY	
1100226	B1.11628H	BG-S14	Th232	SOIL	NAREL TH-EICHROM	0.533568	0.158403	0.06544545	PCI/GDRY	
1100226	B1.11628H	BG-S14	Tl208	SOIL	NAREL GAM-01	0.147	0.024		PCI/GDRY	
1100226	B1.11628H	BG-S14	U234	SOIL	NAREL U-EICHROM	0.325143	0.116718	0.03926727	PCI/GDRY	J
1100226	B1.11628H	BG-S14	U235	SOIL	NAREL GAM-01	0.059	0.019		PCI/GDRY	R
1100226	B1.11628H	BG-S14	U235	SOIL	NAREL U-EICHROM	0.0400176	0.050022	0.06227739	PCI/GDRY	U
1100226	B1.11628H	BG-S14	U238	SOIL	NAREL U-EICHROM	0.258447	0.100044	0.05202288	PCI/GDRY	
1100226	B1.11629J	BG-S15	Bi212	SOIL	NAREL GAM-01	0.28	0.13		PCI/GDRY	
1100226	B1.11629J	BG-S15	Bi214	SOIL	NAREL GAM-01	0.398	0.053		PCI/GDRY	
1100226	B1.11629J	BG-S15	Pa234m	SOIL	NAREL GAM-01	2.2	1.2		PCI/GDRY	
1100226	B1.11629J	BG-S15	Pb212	SOIL	NAREL GAM-01	0.239	0.035		PCI/GDRY	
1100226	B1.11629J	BG-S15	Pb214	SOIL	NAREL GAM-01	0.421	0.053		PCI/GDRY	
1100226	B1.11629J	BG-S15	Ra226	SOIL	NAREL GAM-01	0.71	0.23		PCI/GDRY	R
1100226	B1.11629J	BG-S15	Ra228	SOIL	NAREL GAM-01	0.254	0.043		PCI/GDRY	Q
1100226	B1.11629J	BG-S15	Th227	SOIL	NAREL TH-EICHROM	0.0407394	0.0860054	0.1475672	PCI/GDRY	U
1100226	B1.11629J	BG-S15	Th228	SOIL	NAREL TH-EICHROM	0.3259152	0.1267448	0.09596392	PCI/GDRY	J
1100226	B1.11629J	BG-S15	Th230	SOIL	NAREL TH-EICHROM	0.6246708	0.181064	0.04771037	PCI/GDRY	
1100226	B1.11629J	BG-S15	Th232	SOIL	NAREL TH-EICHROM	0.271596	0.1176916	0.0794871	PCI/GDRY	
1100226	B1.11629J	BG-S15	Tl208	SOIL	NAREL GAM-01	0.078	0.015		PCI/GDRY	
1100226	B1.11629J	BG-S15	U234	SOIL	NAREL U-EICHROM	0.2625428	0.1086384	0.06672209	PCI/GDRY	J
1100226	B1.11629J	BG-S15	U235	SOIL	NAREL GAM-01	0.044	0.015		PCI/GDRY	R
1100226	B1.11629J	BG-S15	U235	SOIL	NAREL U-EICHROM	0.02444364	0.04255004	0.05268963	PCI/GDRY	U
1100226	B1.11629J	BG-S15	U238	SOIL	NAREL U-EICHROM	0.3349684	0.1267448	0.04399855	PCI/GDRY	
1100226	B1.11630B	BG-S16A	Bi212	SOIL	NAREL GAM-01	0.14	0.11		PCI/GDRY	
1100226	B1.11630B	BG-S16A	Bi214	SOIL	NAREL GAM-01	0.244	0.033		PCI/GDRY	
1100226	B1.11630B	BG-S16A	Pb212	SOIL	NAREL GAM-01	0.214	0.031		PCI/GDRY	

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1100226	B1.11630B	BG-S16A	Pb214	SOIL	NAREL GAM-01	0.267	0.036		PCI/GDRY	
1100226	B1.11630B	BG-S16A	Ra226	SOIL	NAREL GAM-01	0.52	0.21		PCI/GDRY	R
1100226	B1.11630B	BG-S16A	Ra228	SOIL	NAREL GAM-01	0.187	0.033		PCI/GDRY	Q
1100226	B1.11630B	BG-S16A	Th227	SOIL	NAREL TH-EICHROM	0.03340435	0.07158075	0.1145292	PCI/GDRY	U
1100226	B1.11630B	BG-S16A	Th228	SOIL	NAREL TH-EICHROM	0.3244994	0.1240733	0.08933277	PCI/GDRY	J
1100226	B1.11630B	BG-S16A	Th230	SOIL	NAREL TH-EICHROM	0.3054112	0.1240733	0.06175033	PCI/GDRY	J
1100226	B1.11630B	BG-S16A	Th232	SOIL	NAREL TH-EICHROM	0.2386025	0.1049851	0.07768898	PCI/GDRY	
1100226	B1.11630B	BG-S16A	Tl208	SOIL	NAREL GAM-01	0.063	0.012		PCI/GDRY	
1100226	B1.11630B	BG-S16A	U234	SOIL	NAREL U-EICHROM	0.2099702	0.095441	0.07129443	PCI/GDRY	J
1100226	B1.11630B	BG-S16A	U235	SOIL	NAREL GAM-01	0.032	0.013		PCI/GDRY	R
1100226	B1.11630B	BG-S16A	U235	SOIL	NAREL U-EICHROM	0.00381764	0.03626758	0.07759353	PCI/GDRY	U
1100226	B1.11630B	BG-S16A	U238	SOIL	NAREL U-EICHROM	0.2195143	0.095441	0.06480444	PCI/GDRY	
1100226	B1.11631C	LCP-SD33	Bi212	SEDIMENT	NAREL GAM-01	0.15	0.18		PCI/GDRY	
1100226	B1.11631C	LCP-SD33	Pa234m	SEDIMENT	NAREL GAM-01	2.5	1.4		PCI/GDRY	
1100226	B1.11631C	LCP-SD33	Pb212	SEDIMENT	NAREL GAM-01	0.263	0.043		PCI/GDRY	
1100226	B1.11631C	LCP-SD33	Pb214	SEDIMENT	NAREL GAM-01	0.086	0.03		PCI/GDRY	
1100226	B1.11631C	LCP-SD33	Ra226	SEDIMENT	NAREL GAM-01	1.55	0.36		PCI/GDRY	R
1100226	B1.11631C	LCP-SD33	Ra228	SEDIMENT	NAREL GAM-01	0.26	0.057		PCI/GDRY	Q
1100226	B1.11631C	LCP-SD33	Th227	SEDIMENT	NAREL TH-EICHROM	0.0529376	0.1124924	0.1766792	PCI/GDRY	U
1100226	B1.11631C	LCP-SD33	Th228	SEDIMENT	NAREL TH-EICHROM	0.5823136	0.2117504	0.1376378	PCI/GDRY	J
1100226	B1.11631C	LCP-SD33	Th230	SEDIMENT	NAREL TH-EICHROM	0.2911568	0.1455784	0.09528767	PCI/GDRY	J
1100226	B1.11631C	LCP-SD33	Th232	SEDIMENT	NAREL TH-EICHROM	0.4367352	0.1786644	0.1091838	PCI/GDRY	J
1100226	B1.11631C	LCP-SD33	Th234	SEDIMENT	NAREL GAM-01	1.77	0.28		PCI/GDRY	
1100226	B1.11631C	LCP-SD33	Tl208	SEDIMENT	NAREL GAM-01	0.087	0.019		PCI/GDRY	
1100226	B1.11631C	LCP-SD33	U234	SEDIMENT	NAREL U-EICHROM	3.732101	0.5426104	0.04479844	PCI/GDRY	
1100226	B1.11631C	LCP-SD33	U235	SEDIMENT	NAREL U-EICHROM	0.198516	0.0926408	0.06147379	PCI/GDRY	
1100226	B1.11631C	LCP-SD33	U235	SEDIMENT	NAREL GAM-01	0.099	0.022		PCI/GDRY	R
1100226	B1.11631C	LCP-SD33	U238	SEDIMENT	NAREL U-EICHROM	3.368155	0.49629	0.05651089	PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	Bi212	WASTE	NAREL GAM-01	14.2	1.7		PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	Bi214	WASTE	NAREL GAM-01	3.04	0.35		PCI/GDRY	

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1100226	B1.11632D	RMA-WST13A	Pa234m	WASTE	NAREL GAM-01	3.9	1.1		PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	Pb212	WASTE	NAREL GAM-01	13.1	1.5		PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	Pb214	WASTE	NAREL GAM-01	3.47	0.4		PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	Ra226	WASTE	NAREL GAM-01	6.36	0.8		PCI/GDRY	R
1100226	B1.11632D	RMA-WST13A	Ra228	WASTE	NAREL GAM-01	12.5	1.4		PCI/GDRY	Q
1100226	B1.11632D	RMA-WST13A	Rn220	WASTE	NAREL GAM-01	16.6	8.8		PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	Th227	WASTE	NAREL TH-EICHROM	0.8164338	0.2870976	0.1211193	PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	Th228	WASTE	NAREL TH-EICHROM	13.00911	1.435488	0.08891054	PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	Th228	WASTE	NAREL GAM-01	12	4.2		PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	Th230	WASTE	NAREL TH-EICHROM	3.633579	0.5293362	0.07491453	PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	Th232	WASTE	NAREL TH-EICHROM	13.00911	1.435488	0.07482482	PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	Th234	WASTE	NAREL GAM-01	1.68	0.28		PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	Tl208	WASTE	NAREL GAM-01	4.07	0.47		PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	U234	WASTE	NAREL U-EICHROM	2.808173	0.4844772	0.06836512	PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	U235	WASTE	NAREL GAM-01	0.382	0.048		PCI/GDRY	R
1100226	B1.11632D	RMA-WST13A	U235	WASTE	NAREL U-EICHROM	0.1435488	0.0986898	0.06190542	PCI/GDRY	
1100226	B1.11632D	RMA-WST13A	U238	WASTE	NAREL U-EICHROM	2.700512	0.4755054	0.086219	PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Bi212	WASTE	NAREL GAM-01	14.4	1.7		PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Bi214	WASTE	NAREL GAM-01	4.56	0.53		PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Pa234m	WASTE	NAREL GAM-01	7.6	2.2		PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Pb212	WASTE	NAREL GAM-01	13.7	1.6		PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Pb214	WASTE	NAREL GAM-01	5.16	0.6		PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Ra223	WASTE	NAREL GAM-01	2.91	0.35		PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Ra226	WASTE	NAREL GAM-01	6.6	0.87		PCI/GDRY	R
1100226	B1.11633E	RMA-WST13B	Ra228	WASTE	NAREL GAM-01	14.2	1.6		PCI/GDRY	Q
1100226	B1.11633E	RMA-WST13B	Th227	WASTE	NAREL TH-EICHROM	0.6458586	0.2547048	0.136449	PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Th228	WASTE	NAREL GAM-01	12.9	5.6		PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Th228	WASTE	NAREL TH-EICHROM	12.64427	1.36449	0.07359149	PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Th230	WASTE	NAREL TH-EICHROM	4.457334	0.6003757	0.07359149	PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Th232	WASTE	NAREL TH-EICHROM	12.55331	1.36449	0.06413103	PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Th234	WASTE	NAREL GAM-01	4.06	0.51		PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	Tl208	WASTE	NAREL GAM-01	4.25	0.49		PCI/GDRY	

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1100226	B1.11633E	RMA-WST13B	U234	WASTE	NAREL U-EICHROM	3.729606	0.5730858	0.0687703	PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	U235	WASTE	NAREL GAM-01	0.193	0.033		PCI/GDRY	R
1100226	B1.11633E	RMA-WST13B	U235	WASTE	NAREL U-EICHROM	0.2001252	0.1091592	0.07186314	PCI/GDRY	
1100226	B1.11633E	RMA-WST13B	U238	WASTE	NAREL U-EICHROM	3.593157	0.5548926	0.04539203	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Bi212	WASTE	NAREL GAM-01	13.6	1.6		PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Bi214	WASTE	NAREL GAM-01	2.81	0.33		PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Pa234m	WASTE	NAREL GAM-01	2.7	1.6		PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Pb212	WASTE	NAREL GAM-01	12.9	1.5		PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Pb214	WASTE	NAREL GAM-01	3.15	0.37		PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Ra223	WASTE	NAREL GAM-01	2.82	0.35		PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Ra226	WASTE	NAREL GAM-01	5.71	0.87		PCI/GDRY	R
1100227	B1.11634F	RMA-WST20B	Ra228	WASTE	NAREL GAM-01	12.9	1.5		PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Th227	WASTE	NAREL TH-EICHROM	0.7131432	0.3519408	0.1722658	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Th227	WASTE	NAREL TH-EICHROM	0.3982488	0.277848	0.254694	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Th228	WASTE	NAREL TH-EICHROM	10.83607	1.204008	0.1991244	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Th228	WASTE	NAREL TH-EICHROM	10.74346	1.204008	0.1407763	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Th228	WASTE	NAREL GAM-01	12	8.2		PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Th230	WASTE	NAREL TH-EICHROM	2.454324	0.4908648	0.1194746	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Th230	WASTE	NAREL TH-EICHROM	2.463586	0.5001264	0.1407763	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Th232	WASTE	NAREL TH-EICHROM	11.76223	1.296624	0.1407763	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Th232	WASTE	NAREL TH-EICHROM	10.65084	1.204008	0.1509641	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Th234	WASTE	NAREL GAM-01	1.55	0.47		PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	Tl208	WASTE	NAREL GAM-01	4.14	0.48		PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	U234	WASTE	NAREL U-EICHROM	2.148691	0.46308	0.08789258	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	U234	WASTE	NAREL U-EICHROM	2.222784	0.4908648	0.1528164	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	U235	WASTE	NAREL U-EICHROM	0.1481856	0.138924	0.110213	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	U235	WASTE	NAREL U-EICHROM	0.04075104	0.08705904	0.1398502	PCI/GDRY	U
1100227	B1.11634F	RMA-WST20B	U235	WASTE	NAREL GAM-01	0.358	0.055		PCI/GDRY	R

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1100227	B1.11634F	RMA-WST20B	U238	WASTE	NAREL U-EICHROM	2.130168	0.4723416	0.121327	PCI/GDRY	
1100227	B1.11634F	RMA-WST20B	U238	WASTE	NAREL U-EICHROM	1.574472	0.3889872	0.1166962	PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Bi212	WASTE	NAREL GAM-01	17.7	2.1		PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Bi214	WASTE	NAREL GAM-01	4.71	0.55		PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Pa234m	WASTE	NAREL GAM-01	3	1.9		PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Pb212	WASTE	NAREL GAM-01	15.8	1.8		PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Pb214	WASTE	NAREL GAM-01	5.11	0.59		PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Ra223	WASTE	NAREL GAM-01	3.34	0.42		PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Ra226	WASTE	NAREL GAM-01	3.06	0.77		PCI/GDRY	R
1100227	B1.11635G	RMA-WSTR01A	Ra228	WASTE	NAREL GAM-01	16.8	1.9		PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Th227	WASTE	NAREL TH-EICHROM	1.182054	0.4709748	0.2354874	PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Th228	WASTE	NAREL GAM-01	13.2	9.5		PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Th228	WASTE	NAREL TH-EICHROM	14.59098	1.569916	0.2678092	PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Th230	WASTE	NAREL TH-EICHROM	3.00131	0.5633228	0.1265168	PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Th232	WASTE	NAREL TH-EICHROM	14.40629	1.569916	0.1265168	PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Th234	WASTE	NAREL GAM-01	2.36	0.63		PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	Tl208	WASTE	NAREL GAM-01	5.17	0.6		PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	U234	WASTE	NAREL U-EICHROM	2.105534	0.4525052	0.136675	PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	U235	WASTE	NAREL U-EICHROM	0.184696	0.138522	0.09881236	PCI/GDRY	
1100227	B1.11635G	RMA-WSTR01A	U235	WASTE	NAREL GAM-01	0.351	0.058		PCI/GDRY	R
1100227	B1.11635G	RMA-WSTR01A	U238	WASTE	NAREL U-EICHROM	1.625325	0.3878616	0.1089706	PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Bi212	WASTE	NAREL GAM-01	15	1.8		PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Bi214	WASTE	NAREL GAM-01	3.6	0.42		PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Pa234m	WASTE	NAREL GAM-01	4	2.1		PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Pb212	WASTE	NAREL GAM-01	14.4	1.7		PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Pb214	WASTE	NAREL GAM-01	4.02	0.47		PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Ra223	WASTE	NAREL GAM-01	2.92	0.37		PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Ra226	WASTE	NAREL GAM-01	7.5	1.2		PCI/GDRY	R
1100227	B1.11636H	RMA-WSTR02A	Ra228	WASTE	NAREL GAM-01	14.4	1.7		PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Rn220	WASTE	NAREL GAM-01	16	18		PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Th227	WASTE	NAREL TH-EICHROM	0.601965	0.333396	0.1741068	PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Th228	WASTE	NAREL GAM-01	10.6	8.4		PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Th228	WASTE	NAREL TH-EICHROM	12.22452	1.38915	0.1898505	PCI/GDRY	

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1100227	B1.11636H	RMA-WSTR02A	Th230	WASTE	NAREL TH-EICHROM	2.96352	0.55566	0.1240974	PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Th232	WASTE	NAREL TH-EICHROM	13.61367	1.48176	0.1426194	PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Th234	WASTE	NAREL GAM-01	1.9	0.62		PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	Tl208	WASTE	NAREL GAM-01	4.62	0.53		PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	U234	WASTE	NAREL U-EICHROM	2.13003	0.481572	0.157437	PCI/GDRY	
1100227	B1.11636H	RMA-WSTR02A	U235	WASTE	NAREL GAM-01	0.435	0.068		PCI/GDRY	R
1100227	B1.11636H	RMA-WSTR02A	U235	WASTE	NAREL U-EICHROM	0.0518616	0.0916839	0.1129842	PCI/GDRY	U
1100227	B1.11636H	RMA-WSTR02A	U238	WASTE	NAREL U-EICHROM	2.472687	0.527877	0.1250235	PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Bi212	SEDIMENT	NAREL GAM-01	13	1.6		PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Bi214	SEDIMENT	NAREL GAM-01	3.29	0.38		PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Pa234m	SEDIMENT	NAREL GAM-01	2.9	1.8		PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Pb212	SEDIMENT	NAREL GAM-01	11.9	1.4		PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Pb214	SEDIMENT	NAREL GAM-01	3.75	0.44		PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Ra223	SEDIMENT	NAREL GAM-01	2.34	0.31		PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Ra226	SEDIMENT	NAREL GAM-01	6.11	0.96		PCI/GDRY	R
1100227	B1.11637J	RMS-SD45	Ra228	SEDIMENT	NAREL GAM-01	12.4	1.4		PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Rn220	SEDIMENT	NAREL GAM-01	13	12		PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Th227	SEDIMENT	NAREL TH-EICHROM	0.3784387	0.2552261	0.1645768	PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Th228	SEDIMENT	NAREL TH-EICHROM	10.82511	1.232126	0.1689773	PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Th228	SEDIMENT	NAREL GAM-01	15.6	8.4		PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Th230	SEDIMENT	NAREL TH-EICHROM	2.024207	0.4312441	0.1337737	PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Th232	SEDIMENT	NAREL TH-EICHROM	10.12103	1.144117	0.117052	PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Th234	SEDIMENT	NAREL GAM-01	1.27	0.52		PCI/GDRY	
1100227	B1.11637J	RMS-SD45	Tl208	SEDIMENT	NAREL GAM-01	3.8	0.44		PCI/GDRY	
1100227	B1.11637J	RMS-SD45	U234	SEDIMENT	NAREL U-EICHROM	1.980203	0.4312441	0.08096828	PCI/GDRY	
1100227	B1.11637J	RMS-SD45	U235	SEDIMENT	NAREL U-EICHROM	0.0968099	0.1144117	0.146975	PCI/GDRY	U
1100227	B1.11637J	RMS-SD45	U235	SEDIMENT	NAREL GAM-01	0.369	0.058		PCI/GDRY	R
1100227	B1.11637J	RMS-SD45	U238	SEDIMENT	NAREL U-EICHROM	1.821786	0.4136423	0.1460949	PCI/GDRY	
1100227	B1.11638K	UCP-SD35	Bi212	SEDIMENT	NAREL GAM-01	2.9	0.43		PCI/GDRY	
1100227	B1.11638K	UCP-SD35	Bi214	SEDIMENT	NAREL GAM-01	0.533	0.072		PCI/GDRY	
1100227	B1.11638K	UCP-SD35	Pa234m	SEDIMENT	NAREL GAM-01	2.9	1.7		PCI/GDRY	
1100227	B1.11638K	UCP-SD35	Pb212	SEDIMENT	NAREL GAM-01	2.62	0.31		PCI/GDRY	

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1100227	B1.11638K	UCP-SD35	Pb214	SEDIMENT	NAREL GAM-01	0.618	0.081		PCI/GDRY	
1100227	B1.11638K	UCP-SD35	Ra223	SEDIMENT	NAREL GAM-01	0.509	0.096		PCI/GDRY	
1100227	B1.11638K	UCP-SD35	Ra226	SEDIMENT	NAREL GAM-01	2.86	0.51		PCI/GDRY	R
1100227	B1.11638K	UCP-SD35	Ra228	SEDIMENT	NAREL GAM-01	2.39	0.28		PCI/GDRY	
1100227	B1.11638K	UCP-SD35	Th227	SEDIMENT	NAREL TH-EICHROM	0.2414808	0.1975752	0.1478155	PCI/GDRY	
1100227	B1.11638K	UCP-SD35	Th228	SEDIMENT	NAREL TH-EICHROM	2.422126	0.4610088	0.1602554	PCI/GDRY	
1100227	B1.11638K	UCP-SD35	Th230	SEDIMENT	NAREL TH-EICHROM	0.9293352	0.2707512	0.1053734	PCI/GDRY	
1100227	B1.11638K	UCP-SD35	Th232	SEDIMENT	NAREL TH-EICHROM	2.788006	0.4975968	0.1200086	PCI/GDRY	
1100227	B1.11638K	UCP-SD35	Th234	SEDIMENT	NAREL GAM-01	1.41	0.4		PCI/GDRY	
1100227	B1.11638K	UCP-SD35	Tl208	SEDIMENT	NAREL GAM-01	0.84	0.1		PCI/GDRY	
1100227	B1.11638K	UCP-SD35	U234	SEDIMENT	NAREL U-EICHROM	3.278285	0.54882	0.1214722	PCI/GDRY	
1100227	B1.11638K	UCP-SD35	U235	SEDIMENT	NAREL U-EICHROM	0.1683048	0.1170816	0.08122536	PCI/GDRY	
1100227	B1.11638K	UCP-SD35	U235	SEDIMENT	NAREL GAM-01	0.179	0.031		PCI/GDRY	R
1100227	B1.11638K	UCP-SD35	U238	SEDIMENT	NAREL U-EICHROM	2.685559	0.4829616	0.09000649	PCI/GDRY	
1100227	B1.11639L	UCP-SD37	Bi212	SEDIMENT	NAREL GAM-01	8	1		PCI/GDRY	
1100227	B1.11639L	UCP-SD37	Bi214	SEDIMENT	NAREL GAM-01	1.79	0.21		PCI/GDRY	
1100227	B1.11639L	UCP-SD37	Pa234m	SEDIMENT	NAREL GAM-01	5.1	2.1		PCI/GDRY	
1100227	B1.11639L	UCP-SD37	Pb212	SEDIMENT	NAREL GAM-01	7.77	0.9		PCI/GDRY	
1100227	B1.11639L	UCP-SD37	Pb214	SEDIMENT	NAREL GAM-01	1.95	0.23		PCI/GDRY	
1100227	B1.11639L	UCP-SD37	Ra226	SEDIMENT	NAREL GAM-01	4.52	0.78		PCI/GDRY	R
1100227	B1.11639L	UCP-SD37	Ra228	SEDIMENT	NAREL GAM-01	7.39	0.86		PCI/GDRY	
1100227	B1.11639L	UCP-SD37	Th227	SEDIMENT	NAREL TH-EICHROM	0.2800172	0.2306024	0.2116601	PCI/GDRY	
1100227	B1.11639L	UCP-SD37	Th228	SEDIMENT	NAREL TH-EICHROM	6.094492	0.82358	0.2108365	PCI/GDRY	
1100227	B1.11639L	UCP-SD37	Th230	SEDIMENT	NAREL TH-EICHROM	2.157779	0.4447332	0.1309492	PCI/GDRY	
1100227	B1.11639L	UCP-SD37	Th232	SEDIMENT	NAREL TH-EICHROM	6.918072	0.905938	0.113654	PCI/GDRY	
1100227	B1.11639L	UCP-SD37	Tl208	SEDIMENT	NAREL GAM-01	2.52	0.29		PCI/GDRY	
1100227	B1.11639L	UCP-SD37	U234	SEDIMENT	NAREL U-EICHROM	2.767229	0.5188554	0.1301256	PCI/GDRY	
1100227	B1.11639L	UCP-SD37	U235	SEDIMENT	NAREL U-EICHROM	0.1482444	0.123537	0.09306454	PCI/GDRY	
1100227	B1.11639L	UCP-SD37	U235	SEDIMENT	NAREL GAM-01	0.284	0.049		PCI/GDRY	R
1100227	B1.11639L	UCP-SD37	U238	SEDIMENT	NAREL U-EICHROM	2.833115	0.5270912	0.1029475	PCI/GDRY	

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1100227	B1.11640D	UCP-SD39	Bi212	SEDIMENT	NAREL GAM-01	13.5	1.6		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Bi212	SEDIMENT	NAREL GAM-01	13.1	1.6		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Bi214	SEDIMENT	NAREL GAM-01	3.12	0.37		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Bi214	SEDIMENT	NAREL GAM-01	3.15	0.37		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Pa234m	SEDIMENT	NAREL GAM-01	4.3	2		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Pa234m	SEDIMENT	NAREL GAM-01	3.7	2.2		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Pb212	SEDIMENT	NAREL GAM-01	12.7	1.5		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Pb212	SEDIMENT	NAREL GAM-01	12.9	1.5		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Pb214	SEDIMENT	NAREL GAM-01	3.54	0.41		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Pb214	SEDIMENT	NAREL GAM-01	3.48	0.41		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Ra223	SEDIMENT	NAREL GAM-01	2.55	0.33		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Ra226	SEDIMENT	NAREL GAM-01	6.3	1		PCI/GDRY	R
1100227	B1.11640D	UCP-SD39	Ra226	SEDIMENT	NAREL GAM-01	6.5	0.98		PCI/GDRY	R
1100227	B1.11640D	UCP-SD39	Ra228	SEDIMENT	NAREL GAM-01	12.8	1.5		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Ra228	SEDIMENT	NAREL GAM-01	13.1	1.5		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Rn220	SEDIMENT	NAREL GAM-01	19	13		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Th227	SEDIMENT	NAREL TH-EICHROM	0.3560932	0.2431856	0.1554651	PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Th228	SEDIMENT	NAREL TH-EICHROM	10.07483	1.129076	0.1693614	PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Th228	SEDIMENT	NAREL GAM-01	18.2	9.6		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Th228	SEDIMENT	NAREL GAM-01	11.7	6.4		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Th230	SEDIMENT	NAREL TH-EICHROM	2.666356	0.4950564	0.08363847	PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Th232	SEDIMENT	NAREL TH-EICHROM	9.901128	1.129076	0.08355162	PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Th234	SEDIMENT	NAREL GAM-01	2.35	0.65		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Th234	SEDIMENT	NAREL GAM-01	2.78	0.63		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Tl208	SEDIMENT	NAREL GAM-01	4.12	0.48		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	Tl208	SEDIMENT	NAREL GAM-01	4.04	0.47		PCI/GDRY	
1100227	B1.11640D	UCP-SD39	U234	SEDIMENT	NAREL U-EICHROM	2.848746	0.5471676	0.1276724	PCI/GDRY	
1100227	B1.11640D	UCP-SD39	U235	SEDIMENT	NAREL GAM-01	0.4	0.06		PCI/GDRY	R
1100227	B1.11640D	UCP-SD39	U235	SEDIMENT	NAREL GAM-01	0.365	0.061		PCI/GDRY	R
1100227	B1.11640D	UCP-SD39	U235	SEDIMENT	NAREL U-EICHROM	0.1823892	0.1389632	0.1007483	PCI/GDRY	
1100227	B1.11640D	UCP-SD39	U238	SEDIMENT	NAREL U-EICHROM	2.527393	0.5037416	0.08433329	PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Bi212	WASTE	NAREL GAM-01	14.9	1.8		PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Bi214	WASTE	NAREL GAM-01	3.4	0.4		PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Pa234m	WASTE	NAREL GAM-01	5	3.4		PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Pb212	WASTE	NAREL GAM-01	14.6	1.7		PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Pb214	WASTE	NAREL GAM-01	3.97	0.46		PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Ra223	WASTE	NAREL GAM-01	2.93	0.39		PCI/GDRY	

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1100227	B1.11641E	RMA-WST02B	Ra226	WASTE	NAREL GAM-01	7.1	1.1		PCI/GDRY	R
1100227	B1.11641E	RMA-WST02B	Ra228	WASTE	NAREL GAM-01	14.6	1.7		PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Th227	WASTE	NAREL TH-EICHROM	0.886386	0.36552	0.1425528	PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Th228	WASTE	NAREL GAM-01	10.9	7.2		PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Th228	WASTE	NAREL TH-EICHROM	12.51906	1.27932	0.1882428	PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Th230	WASTE	NAREL TH-EICHROM	3.1983	0.530004	0.1288458	PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Th232	WASTE	NAREL TH-EICHROM	12.3363	1.27932	0.07685058	PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Th234	WASTE	NAREL GAM-01	3.03	0.73		PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	Tl208	WASTE	NAREL GAM-01	4.61	0.53		PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	U234	WASTE	NAREL U-EICHROM	3.28968	0.612246	0.1379838	PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	U235	WASTE	NAREL U-EICHROM	0.255864	0.18276	0.164484	PCI/GDRY	
1100227	B1.11641E	RMA-WST02B	U235	WASTE	NAREL GAM-01	0.445	0.069		PCI/GDRY	R
1100227	B1.11641E	RMA-WST02B	U238	WASTE	NAREL U-EICHROM	2.869332	0.566556	0.09064896	PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Bi212	WASTE	NAREL GAM-01	11.2	1.4		PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Bi214	WASTE	NAREL GAM-01	2.33	0.28		PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Pa234m	WASTE	NAREL GAM-01	2.9	2		PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Pb212	WASTE	NAREL GAM-01	11	1.3		PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Pb214	WASTE	NAREL GAM-01	2.6	0.3		PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Ra223	WASTE	NAREL GAM-01	2.29	0.3		PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Ra226	WASTE	NAREL GAM-01	4.69	0.76		PCI/GDRY	R
1100227	B1.11642F	RMA-WST04B	Ra228	WASTE	NAREL GAM-01	11.3	1.3		PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Th227	WASTE	NAREL TH-EICHROM	0.6518448	0.3078156	0.1403277	PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Th228	WASTE	NAREL TH-EICHROM	10.59248	1.176942	0.1738253	PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Th230	WASTE	NAREL TH-EICHROM	2.453471	0.45267	0.1149782	PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Th232	WASTE	NAREL TH-EICHROM	9.95874	1.086408	0.07559589	PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Th234	WASTE	NAREL GAM-01	2.26	0.49		PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	Tl208	WASTE	NAREL GAM-01	3.58	0.42		PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	U234	WASTE	NAREL U-EICHROM	2.245243	0.4888836	0.09234468	PCI/GDRY	
1100227	B1.11642F	RMA-WST04B	U235	WASTE	NAREL GAM-01	0.294	0.048		PCI/GDRY	R
1100227	B1.11642F	RMA-WST04B	U235	WASTE	NAREL U-EICHROM	0.0724272	0.1176942	0.1846894	PCI/GDRY	U

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1100227	B1.11642F	RMA-WST04B	U238	WASTE	NAREL U-EICHROM	2.254297	0.497937	0.1222209	PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Bi212	WASTE	NAREL GAM-01	17.2	2.1		PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Bi214	WASTE	NAREL GAM-01	3.91	0.46		PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Pa234m	WASTE	NAREL GAM-01	3.9	2.9		PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Pb212	WASTE	NAREL GAM-01	15.8	1.8		PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Pb214	WASTE	NAREL GAM-01	4.45	0.52		PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Ra223	WASTE	NAREL GAM-01	3.3	0.42		PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Ra226	WASTE	NAREL GAM-01	8.5	1.3		PCI/GDRY	R
1100227	B1.11643G	RMA-WST05A	Ra228	WASTE	NAREL GAM-01	15.9	1.8		PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Th227	WASTE	NAREL TH-EICHROM	0.5443945	0.285584	0.2079408	PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Th228	WASTE	NAREL TH-EICHROM	14.99316	1.42792	0.1231581	PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Th228	WASTE	NAREL GAM-01	23	10		PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Th230	WASTE	NAREL TH-EICHROM	4.149893	0.606866	0.09727705	PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Th232	WASTE	NAREL TH-EICHROM	14.63618	1.42792	0.1115562	PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Th234	WASTE	NAREL GAM-01	5.27	0.97		PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	Tl208	WASTE	NAREL GAM-01	5.03	0.58		PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	U234	WASTE	NAREL U-EICHROM	3.962478	0.6871865	0.09013745	PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	U235	WASTE	NAREL U-EICHROM	0.196339	0.1517165	0.1079865	PCI/GDRY	
1100227	B1.11643G	RMA-WST05A	U235	WASTE	NAREL GAM-01	0.522	0.079		PCI/GDRY	R
1100227	B1.11643G	RMA-WST05A	U238	WASTE	NAREL U-EICHROM	4.123119	0.7050355	0.1186958	PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Bi212	WASTE	NAREL GAM-01	16.8	2.1		PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Bi214	WASTE	NAREL GAM-01	3.79	0.45		PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Pa234m	WASTE	NAREL GAM-01	4.3	3.4		PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Pb210	WASTE	NAREL GAM-01	2.86	0.75		PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Pb212	WASTE	NAREL GAM-01	16.1	1.9		PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Pb214	WASTE	NAREL GAM-01	4.3	0.5		PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Ra223	WASTE	NAREL GAM-01	3.5	0.44		PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Ra226	WASTE	NAREL GAM-01	8.1	1.2		PCI/GDRY	R
1100227	B1.11644H	RMA-WST05B	Ra228	WASTE	NAREL GAM-01	16.3	1.9		PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Th227	WASTE	NAREL TH-EICHROM	1.217779	0.4816587	0.2644579	PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Th228	WASTE	NAREL TH-EICHROM	13.08658	1.454064	0.2371942	PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Th228	WASTE	NAREL GAM-01	19	11		PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Th230	WASTE	NAREL TH-EICHROM	2.926304	0.545274	0.1245042	PCI/GDRY	

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1100227	B1.11644H	RMA-WST05B	Th232	WASTE	NAREL TH-EICHROM	12.81394	1.363185	0.09360537	PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Th234	WASTE	NAREL GAM-01	6.13	0.86		PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	Tl208	WASTE	NAREL GAM-01	5.03	0.58		PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	U234	WASTE	NAREL U-EICHROM	3.035358	0.5725377	0.1526767	PCI/GDRY	
1100227	B1.11644H	RMA-WST05B	U235	WASTE	NAREL U-EICHROM	0.090879	0.1090548	0.1017845	PCI/GDRY	U
1100227	B1.11644H	RMA-WST05B	U235	WASTE	NAREL GAM-01	0.49	0.073		PCI/GDRY	R
1100227	B1.11644H	RMA-WST05B	U238	WASTE	NAREL U-EICHROM	3.407963	0.6088893	0.11269	PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Bi212	WASTE	NAREL GAM-01	15.6	1.8		PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Bi214	WASTE	NAREL GAM-01	4.5	0.52		PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Pa234m	WASTE	NAREL GAM-01	13.4	2.9		PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Pb212	WASTE	NAREL GAM-01	14.1	1.6		PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Pb214	WASTE	NAREL GAM-01	4.8	0.55		PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Ra223	WASTE	NAREL GAM-01	3.09	0.38		PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Ra226	WASTE	NAREL GAM-01	8	1		PCI/GDRY	R
1100227	B1.11645J	RMA-WST06B	Ra228	WASTE	NAREL GAM-01	14.9	1.7		PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Th227	WASTE	NAREL TH-EICHROM	0.8612605	0.5167563	0.3880205	PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Th228	WASTE	NAREL TH-EICHROM	11.60435	1.541203	0.362636	PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Th228	WASTE	NAREL GAM-01	8.8	6.1		PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Th230	WASTE	NAREL TH-EICHROM	3.535701	0.7706015	0.2846693	PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Th232	WASTE	NAREL TH-EICHROM	11.87633	1.541203	0.1577467	PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Th234	WASTE	NAREL GAM-01	2.3	0.36		PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	Tl208	WASTE	NAREL GAM-01	4.48	0.52		PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	U234	WASTE	NAREL U-EICHROM	1.468676	0.4623609	0.2311804	PCI/GDRY	
1100227	B1.11645J	RMA-WST06B	U235	WASTE	NAREL GAM-01	0.494	0.064		PCI/GDRY	R
1100227	B1.11645J	RMA-WST06B	U235	WASTE	NAREL U-EICHROM	0.1178567	0.1541203	0.165906	PCI/GDRY	U
1100227	B1.11645J	RMA-WST06B	U238	WASTE	NAREL U-EICHROM	1.523071	0.4714268	0.1831312	PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Bi212	WASTE	NAREL GAM-01	17.8	2.1		PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Bi214	WASTE	NAREL GAM-01	6.67	0.77		PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Pa234m	WASTE	NAREL GAM-01	7.1	2.8		PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Pb212	WASTE	NAREL GAM-01	16.8	1.9		PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Pb214	WASTE	NAREL GAM-01	7.39	0.86		PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Ra223	WASTE	NAREL GAM-01	3.76	0.48		PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Ra226	WASTE	NAREL GAM-01	13.9	1.9		PCI/GDRY	R

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1100227	B1.11646K	RMA-WST07B	Ra228	WASTE	NAREL GAM-01	17.9	2.1		PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Th227	WASTE	NAREL TH-EICHROM	1.288557	0.6579864	0.4185525	PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Th228	WASTE	NAREL TH-EICHROM	14.62192	1.82774	0.2257259	PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Th228	WASTE	NAREL GAM-01	23	11		PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Th230	WASTE	NAREL TH-EICHROM	5.757381	1.005257	0.2257259	PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Th232	WASTE	NAREL TH-EICHROM	16.1755	2.010514	0.2257259	PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Th234	WASTE	NAREL GAM-01	4.24	0.94		PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	Tl208	WASTE	NAREL GAM-01	5.32	0.62		PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	U234	WASTE	NAREL U-EICHROM	6.488477	1.096644	0.2238982	PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	U235	WASTE	NAREL U-EICHROM	0.2467449	0.2193288	0.1772908	PCI/GDRY	
1100227	B1.11646K	RMA-WST07B	U235	WASTE	NAREL GAM-01	0.85	0.11		PCI/GDRY	R
1100227	B1.11646K	RMA-WST07B	U238	WASTE	NAREL U-EICHROM	5.848768	1.096644	0.1480469	PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Bi212	WASTE	NAREL GAM-01	13.7	1.6		PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Bi214	WASTE	NAREL GAM-01	2.74	0.32		PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Pa234m	WASTE	NAREL GAM-01	3.1	1.8		PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Pb212	WASTE	NAREL GAM-01	12.7	1.5		PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Pb214	WASTE	NAREL GAM-01	3.18	0.37		PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Ra223	WASTE	NAREL GAM-01	2.38	0.29		PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Ra226	WASTE	NAREL GAM-01			0.679	PCI/GDRY	U
1100227	B1.11647L	RMA-WST08A	Ra228	WASTE	NAREL GAM-01	12.1	1.4		PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Th227	WASTE	NAREL TH-EICHROM	0.5832905	0.3320269	0.179474	PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Th228	WASTE	NAREL GAM-01	9.2	4.8		PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Th228	WASTE	NAREL TH-EICHROM	11.93502	1.346055	0.2054977	PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Th230	WASTE	NAREL TH-EICHROM	3.042084	0.5653431	0.09691596	PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Th232	WASTE	NAREL TH-EICHROM	12.02476	1.346055	0.1615266	PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Th234	WASTE	NAREL GAM-01	1.85	0.37		PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	Tl208	WASTE	NAREL GAM-01	3.96	0.46		PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	U234	WASTE	NAREL U-EICHROM	2.701084	0.5294483	0.1256318	PCI/GDRY	
1100227	B1.11647L	RMA-WST08A	U235	WASTE	NAREL GAM-01	0.341	0.049		PCI/GDRY	R
1100227	B1.11647L	RMA-WST08A	U235	WASTE	NAREL U-EICHROM	0.1256318	0.1256318	0.1507582	PCI/GDRY	U

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1100227	B1.11647L	RMA-WST08A	U238	WASTE	NAREL U-EICHROM	2.790821	0.538422	0.08291699	PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Bi212	WASTE	NAREL GAM-01	11.4	1.4		PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Bi214	WASTE	NAREL GAM-01	2.3	0.27		PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Pa234m	WASTE	NAREL GAM-01	2.1	2.1		PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Pb212	WASTE	NAREL GAM-01	11	1.3		PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Pb214	WASTE	NAREL GAM-01	2.61	0.31		PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Ra223	WASTE	NAREL GAM-01	2.14	0.29		PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Ra226	WASTE	NAREL GAM-01	4.94	0.79		PCI/GDRY	R
1100227	B1.11648M	RMA-WST10A	Ra228	WASTE	NAREL GAM-01	11	1.3		PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Th227	WASTE	NAREL TH-EICHROM	0.746953	0.364791	0.1711043	PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Th228	WASTE	NAREL TH-EICHROM	9.380341	1.129115	0.2188746	PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Th228	WASTE	NAREL GAM-01	6.6	6.8		PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Th230	WASTE	NAREL TH-EICHROM	2.405884	0.486388	0.0920663	PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Th232	WASTE	NAREL TH-EICHROM	10.50946	1.21597	0.1398365	PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Th234	WASTE	NAREL GAM-01	1.79	0.51		PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	Tl208	WASTE	NAREL GAM-01	3.5	0.41		PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	U234	WASTE	NAREL U-EICHROM	1.902125	0.434275	0.08772355	PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	U235	WASTE	NAREL GAM-01	0.301	0.048		PCI/GDRY	R
1100227	B1.11648M	RMA-WST10A	U235	WASTE	NAREL U-EICHROM	0.191081	0.156339	0.1754471	PCI/GDRY	
1100227	B1.11648M	RMA-WST10A	U238	WASTE	NAREL U-EICHROM	2.240859	0.4777025	0.1163857	PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Bi212	WASTE	NAREL GAM-01	16	2		PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Bi214	WASTE	NAREL GAM-01	3.44	0.41		PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Pa234m	WASTE	NAREL GAM-01	5	2.7		PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Pb210	WASTE	NAREL GAM-01	1.26	0.56		PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Pb212	WASTE	NAREL GAM-01	15.4	1.8		PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Pb214	WASTE	NAREL GAM-01	3.89	0.45		PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Ra223	WASTE	NAREL GAM-01	3.13	0.4		PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Ra226	WASTE	NAREL GAM-01	7.1	1.1		PCI/GDRY	R
1100227	B1.11649N	RMA-WST11B	Ra228	WASTE	NAREL GAM-01	15.5	1.8		PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Th227	WASTE	NAREL TH-EICHROM	0.635481	0.3358971	0.1715799	PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Th228	WASTE	NAREL GAM-01	11.9	8.3		PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Th228	WASTE	NAREL TH-EICHROM	13.52667	1.452528	0.187013	PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Th230	WASTE	NAREL TH-EICHROM	3.821964	0.635481	0.09259866	PCI/GDRY	

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1100227	B1.11649N	RMA-WST11B	Th232	WASTE	NAREL TH-EICHROM	13.07275	1.452528	0.09259866	PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Th234	WASTE	NAREL GAM-01	4.07	0.62		PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	Tl208	WASTE	NAREL GAM-01	4.94	0.57		PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	U234	WASTE	NAREL U-EICHROM	2.650864	0.5265414	0.1534233	PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	U235	WASTE	NAREL GAM-01	0.447	0.066		PCI/GDRY	R
1100227	B1.11649N	RMA-WST11B	U235	WASTE	NAREL U-EICHROM	0.1180179	0.1180179	0.1025848	PCI/GDRY	
1100227	B1.11649N	RMA-WST11B	U238	WASTE	NAREL U-EICHROM	3.0957	0.5810112	0.1298197	PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Bi212	WASTE	NAREL GAM-01	16.4	1.9		PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Bi214	WASTE	NAREL GAM-01	3.93	0.46		PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Pa234m	WASTE	NAREL GAM-01	12.4	3.1		PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Pb212	WASTE	NAREL GAM-01	15.5	1.8		PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Pb214	WASTE	NAREL GAM-01	4.26	0.49		PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Ra226	WASTE	NAREL GAM-01			1.13	PCI/GDRY	U
1100227	B1.11650F	RMA-WST11C	Ra228	WASTE	NAREL GAM-01	15.9	1.8		PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Th227	WASTE	NAREL TH-EICHROM	0.9755424	0.4245416	0.1752363	PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Th228	WASTE	NAREL TH-EICHROM	11.83297	1.35492	0.1698166	PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Th228	WASTE	NAREL GAM-01	16.5	9.2		PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Th230	WASTE	NAREL TH-EICHROM	3.007922	0.5600336	0.1255559	PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Th232	WASTE	NAREL TH-EICHROM	12.73625	1.35492	0.1571707	PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Th234	WASTE	NAREL GAM-01	7.79	0.94		PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	Tl208	WASTE	NAREL GAM-01	4.79	0.55		PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	U234	WASTE	NAREL U-EICHROM	3.188578	0.587132	0.1138133	PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	U235	WASTE	NAREL GAM-01	0.519	0.071		PCI/GDRY	R
1100227	B1.11650F	RMA-WST11C	U235	WASTE	NAREL U-EICHROM	0.1445248	0.1264592	0.1029739	PCI/GDRY	
1100227	B1.11650F	RMA-WST11C	U238	WASTE	NAREL U-EICHROM	3.441497	0.6232632	0.1653002	PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	Bi212	WASTE	NAREL GAM-01	12.8	1.6		PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	Bi214	WASTE	NAREL GAM-01	3.02	0.36		PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	Pa234m	WASTE	NAREL GAM-01	3.4	2.6		PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	Pb212	WASTE	NAREL GAM-01	11.8	1.4		PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	Pb214	WASTE	NAREL GAM-01	3.31	0.39		PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	Ra226	WASTE	NAREL GAM-01	5.76	0.95		PCI/GDRY	R
1100227	B1.11651G	RMA-WST19B	Ra228	WASTE	NAREL GAM-01	12.3	1.4		PCI/GDRY	

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1100227	B1.11651G	RMA-WST19B	Th227	WASTE	NAREL TH-EICHROM	0.8279426	0.3611239	0.2008201	PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	Th228	WASTE	NAREL TH-EICHROM	8.631742	1.056948	0.1567806	PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	Th230	WASTE	NAREL TH-EICHROM	2.210783	0.440395	0.08191347	PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	Th232	WASTE	NAREL TH-EICHROM	7.92711	0.968869	0.1241914	PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	Tl208	WASTE	NAREL GAM-01	3.77	0.44		PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	U234	WASTE	NAREL U-EICHROM	2.941839	0.5108582	0.1153835	PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	U235	WASTE	NAREL U-EICHROM	0.1937738	0.1321185	0.0826181	PCI/GDRY	
1100227	B1.11651G	RMA-WST19B	U235	WASTE	NAREL GAM-01	0.362	0.06		PCI/GDRY	R
1100227	B1.11651G	RMA-WST19B	U238	WASTE	NAREL U-EICHROM	2.219591	0.4315871	0.09160216	PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	Bi212	WASTE	NAREL GAM-01	14.8	1.8		PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	Bi214	WASTE	NAREL GAM-01	7.48	0.86		PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	Pa234m	WASTE	NAREL GAM-01	7.3	2.5		PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	Pb212	WASTE	NAREL GAM-01	13.1	1.5		PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	Pb214	WASTE	NAREL GAM-01	7.88	0.91		PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	Ra226	WASTE	NAREL GAM-01	7.6	1.1		PCI/GDRY	R
1100227	B1.11652H	RMB-WST22A	Ra228	WASTE	NAREL GAM-01	13.8	1.6		PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	Th227	WASTE	NAREL TH-EICHROM	0.7474113	0.3598647	0.2177643	PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	Th228	WASTE	NAREL TH-EICHROM	11.53413	1.291822	0.1171867	PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	Th230	WASTE	NAREL TH-EICHROM	6.551383	0.8673662	0.1347186	PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	Th232	WASTE	NAREL TH-EICHROM	11.6264	1.291822	0.1347186	PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	Tl208	WASTE	NAREL GAM-01	4.32	0.5		PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	U234	WASTE	NAREL U-EICHROM	4.37374	0.6551383	0.08848981	PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	U235	WASTE	NAREL U-EICHROM	0.2952736	0.1568641	0.08000069	PCI/GDRY	
1100227	B1.11652H	RMB-WST22A	U235	WASTE	NAREL GAM-01	0.335	0.055		PCI/GDRY	R
1100227	B1.11652H	RMB-WST22A	U238	WASTE	NAREL U-EICHROM	4.318376	0.645911	0.08848981	PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	Bi212	WASTE	NAREL GAM-01	8.7	1.1		PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	Bi214	WASTE	NAREL GAM-01	4.59	0.53		PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	Pa234m	WASTE	NAREL GAM-01	6.4	2		PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	Pb212	WASTE	NAREL GAM-01	8.33	0.96		PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	Pb214	WASTE	NAREL GAM-01	4.76	0.55		PCI/GDRY	

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1100227	B1.11653J	RMB-WST22B	Ra223	WASTE	NAREL GAM-01	1.93	0.26		PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	Ra226	WASTE	NAREL GAM-01	8.8	1.1		PCI/GDRY	R
1100227	B1.11653J	RMB-WST22B	Ra228	WASTE	NAREL GAM-01	8.7	1		PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	Th227	WASTE	NAREL TH-EICHROM	0.7400009	0.3653169	0.1779749	PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	Th228	WASTE	NAREL TH-EICHROM	7.025325	0.93671	0.2276205	PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	Th230	WASTE	NAREL TH-EICHROM	3.896713	0.655697	0.1601774	PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	Th232	WASTE	NAREL TH-EICHROM	7.025325	0.93671	0.1264559	PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	Th234	WASTE	NAREL GAM-01	2.15	0.33		PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	Tl208	WASTE	NAREL GAM-01	2.8	0.32		PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	U234	WASTE	NAREL U-EICHROM	3.803043	0.6931654	0.1470635	PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	U235	WASTE	NAREL U-EICHROM	0.1592407	0.1405065	0.116152	PCI/GDRY	
1100227	B1.11653J	RMB-WST22B	U235	WASTE	NAREL GAM-01	0.531	0.069		PCI/GDRY	R
1100227	B1.11653J	RMB-WST22B	U238	WASTE	NAREL U-EICHROM	3.52203	0.655697	0.1283293	PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Bi212	WASTE	NAREL GAM-01	13.6	1.6		PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Bi214	WASTE	NAREL GAM-01	4.89	0.56		PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Pa234m	WASTE	NAREL GAM-01	4.9	1.8		PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Pb212	WASTE	NAREL GAM-01	12.7	1.5		PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Pb214	WASTE	NAREL GAM-01	5.34	0.62		PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Ra223	WASTE	NAREL GAM-01	2.88	0.35		PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Ra226	WASTE	NAREL GAM-01	9.1	1.2		PCI/GDRY	R
1100228	B1.11654K	RMB-WST23A	Ra228	WASTE	NAREL GAM-01	13.3	1.5		PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Rn220	WASTE	NAREL GAM-01	17	15		PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Th227	WASTE	NAREL TH-EICHROM	1.037389	0.3612336	0.1741331	PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Th228	WASTE	NAREL GAM-01	11.2	5.5		PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Th228	WASTE	NAREL TH-EICHROM	10.46651	1.204112	0.1454197	PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Th230	WASTE	NAREL TH-EICHROM	2.954706	0.4816448	0.07595168	PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Th232	WASTE	NAREL TH-EICHROM	10.37389	1.204112	0.05733426	PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Th234	WASTE	NAREL GAM-01	2.26	0.5		PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	Tl208	WASTE	NAREL GAM-01	4.14	0.48		PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	U234	WASTE	NAREL U-EICHROM	3.038067	0.5279568	0.05724163	PCI/GDRY	
1100228	B1.11654K	RMB-WST23A	U235	WASTE	NAREL U-EICHROM	0.185248	0.1204112	0.09077152	PCI/GDRY	J

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1100228	B1.11654K	RMB-WST23A	U235	WASTE	NAREL GAM-01	0.537	0.069		PCI/GDRY	R
1100228	B1.11654K	RMB-WST23A	U238	WASTE	NAREL U-EICHROM	2.825032	0.509432	0.09540272	PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	Bi212	WASTE	NAREL GAM-01	10.5	1.2		PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	Bi214	WASTE	NAREL GAM-01	4.88	0.56		PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	Pa234m	WASTE	NAREL GAM-01	6.3	1.4		PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	Pb212	WASTE	NAREL GAM-01	9.7	1.1		PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	Pb214	WASTE	NAREL GAM-01	5.36	0.62		PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	Ra223	WASTE	NAREL GAM-01	1.99	0.25		PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	Ra226	WASTE	NAREL GAM-01	7.53	0.97		PCI/GDRY	R
1100228	B1.11655L	RMB-WST23B	Ra228	WASTE	NAREL GAM-01	9.7	1.1		PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	Rn220	WASTE	NAREL GAM-01	8.1	7.3		PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	Th227	WASTE	NAREL TH-EICHROM	0.6720048	0.3826694	0.2632019	PCI/GDRY	J
1100228	B1.11655L	RMB-WST23B	Th228	WASTE	NAREL GAM-01	10.2	5.2		PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	Th228	WASTE	NAREL TH-EICHROM	7.840055	1.120008	0.2286683	PCI/GDRY	J
1100228	B1.11655L	RMB-WST23B	Th230	WASTE	NAREL TH-EICHROM	3.920028	0.7093384	0.1792013	PCI/GDRY	J
1100228	B1.11655L	RMB-WST23B	Th232	WASTE	NAREL TH-EICHROM	7.093384	1.026674	0.09986738	PCI/GDRY	J
1100228	B1.11655L	RMB-WST23B	Th234	WASTE	NAREL GAM-01	2.74	0.36		PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	Tl208	WASTE	NAREL GAM-01	2.99	0.34		PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	U234	WASTE	NAREL U-EICHROM	4.237363	0.6720048	0.0557204	PCI/GDRY	
1100228	B1.11655L	RMB-WST23B	U235	WASTE	NAREL U-EICHROM	0.1773346	0.1120008	0.08829396	PCI/GDRY	J
1100228	B1.11655L	RMB-WST23B	U235	WASTE	NAREL GAM-01	0.174	0.033		PCI/GDRY	R
1100228	B1.11655L	RMB-WST23B	U238	WASTE	NAREL U-EICHROM	3.910695	0.6346712	0.07373387	PCI/GDRY	
1100228	B1.11656M	RMB-WST23C	Bi212	WASTE	NAREL GAM-01	9.5	1.2		PCI/GDRY	
1100228	B1.11656M	RMB-WST23C	Bi214	WASTE	NAREL GAM-01	4.4	0.51		PCI/GDRY	
1100228	B1.11656M	RMB-WST23C	Pa234m	WASTE	NAREL GAM-01	6.7	2		PCI/GDRY	
1100228	B1.11656M	RMB-WST23C	Pb212	WASTE	NAREL GAM-01	8.16	0.94		PCI/GDRY	
1100228	B1.11656M	RMB-WST23C	Pb214	WASTE	NAREL GAM-01	4.63	0.53		PCI/GDRY	
1100228	B1.11656M	RMB-WST23C	Ra226	WASTE	NAREL GAM-01	8.6	1.1		PCI/GDRY	R
1100228	B1.11656M	RMB-WST23C	Ra228	WASTE	NAREL GAM-01	8.8	1		PCI/GDRY	
1100228	B1.11656M	RMB-WST23C	Th227	WASTE	NAREL TH-EICHROM	0.9005184	0.3658356	0.18667	PCI/GDRY	
1100228	B1.11656M	RMB-WST23C	Th228	WASTE	NAREL TH-EICHROM	7.785732	1.031844	0.09342878	PCI/GDRY	
1100228	B1.11656M	RMB-WST23C	Th230	WASTE	NAREL TH-EICHROM	3.386324	0.5722044	0.09324118	PCI/GDRY	

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1100228	B1.11656M	RMB-WST23C	Th232	WASTE	NAREL TH-EICHROM	7.97334	1.031844	0.09314737	PCI/GDRY	
1100228	B1.11656M	RMB-WST23C	Tl208	WASTE	NAREL GAM-01	2.77	0.32		PCI/GDRY	
1100228	B1.11656M	RMB-WST23C	U234	WASTE	NAREL U-EICHROM	3.864725	0.6472476	0.1013083	PCI/GDRY	
1100228	B1.11656M	RMB-WST23C	U235	WASTE	NAREL U-EICHROM	0.2157492	0.1313256	0.07288571	PCI/GDRY	J
1100228	B1.11656M	RMB-WST23C	U235	WASTE	NAREL GAM-01	0.521	0.067		PCI/GDRY	R
1100228	B1.11656M	RMB-WST23C	U238	WASTE	NAREL U-EICHROM	3.761541	0.6378672	0.08057763	PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	Bi212	WASTE	NAREL GAM-01	15	1.8		PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	Bi214	WASTE	NAREL GAM-01	7.15	0.83		PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	Pa234m	WASTE	NAREL GAM-01	7.9	2.8		PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	Pb212	WASTE	NAREL GAM-01	13.8	1.6		PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	Pb214	WASTE	NAREL GAM-01	7.64	0.88		PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	Ra226	WASTE	NAREL GAM-01	14	1.8		PCI/GDRY	R
1100228	B1.11657N	RMB-WST28B	Ra228	WASTE	NAREL GAM-01	14.3	1.7		PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	Rn219	WASTE	NAREL GAM-01	0.39	0.22		PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	Th227	WASTE	NAREL TH-EICHROM	1.455107	0.4448736	0.1167793	PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	Th228	WASTE	NAREL TH-EICHROM	11.8633	1.39023	0.1241939	PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	Th230	WASTE	NAREL TH-EICHROM	7.192123	0.9175518	0.05857502	PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	Th232	WASTE	NAREL TH-EICHROM	11.39989	1.297548	0.09731609	PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	Tl208	WASTE	NAREL GAM-01	4.45	0.51		PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	U234	WASTE	NAREL U-EICHROM	6.209694	0.92682	0.1093648	PCI/GDRY	
1100228	B1.11657N	RMB-WST28B	U235	WASTE	NAREL U-EICHROM	0.4541418	0.1946322	0.07859433	PCI/GDRY	J
1100228	B1.11657N	RMB-WST28B	U235	WASTE	NAREL GAM-01	0.86	0.11		PCI/GDRY	R
1100228	B1.11657N	RMB-WST28B	U238	WASTE	NAREL U-EICHROM	6.395058	1.019502	0.08684304	PCI/GDRY	
1100228	B1.11658P	RMB-WST29B	Bi212	WASTE	NAREL GAM-01	13.1	1.6		PCI/GDRY	J
1100228	B1.11658P	RMB-WST29B	Bi214	WASTE	NAREL GAM-01	5.93	0.69		PCI/GDRY	J
1100228	B1.11658P	RMB-WST29B	Pa234m	WASTE	NAREL GAM-01	7.1	2.5		PCI/GDRY	J
1100228	B1.11658P	RMB-WST29B	Pb212	WASTE	NAREL GAM-01	12.6	1.5		PCI/GDRY	J
1100228	B1.11658P	RMB-WST29B	Pb214	WASTE	NAREL GAM-01	6.44	0.74		PCI/GDRY	J
1100228	B1.11658P	RMB-WST29B	Ra223	WASTE	NAREL GAM-01	3	0.38		PCI/GDRY	J
1100228	B1.11658P	RMB-WST29B	Ra226	WASTE	NAREL GAM-01	13.3	1.6		PCI/GDRY	R
1100228	B1.11658P	RMB-WST29B	Ra228	WASTE	NAREL GAM-01	12.6	1.5		PCI/GDRY	J
1100228	B1.11658P	RMB-WST29B	Th227	WASTE	NAREL TH-EICHROM	1.163512	0.4095564	0.1331058	PCI/GDRY	

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1100228	B1.11658P	RMB-WST29B	Th228	WASTE	NAREL TH-EICHROM	10.23891	1.210053	0.1582377	PCI/GDRY	
1100228	B1.11658P	RMB-WST29B	Th228	WASTE	NAREL GAM-01	13	6.2		PCI/GDRY	J
1100228	B1.11658P	RMB-WST29B	Th230	WASTE	NAREL TH-EICHROM	5.556935	0.7818804	0.06664599	PCI/GDRY	
1100228	B1.11658P	RMB-WST29B	Th232	WASTE	NAREL TH-EICHROM	10.42507	1.303134	0.1005275	PCI/GDRY	
1100228	B1.11658P	RMB-WST29B	Th234	WASTE	NAREL GAM-01	4.41	0.69		PCI/GDRY	J
1100228	B1.11658P	RMB-WST29B	Tl208	WASTE	NAREL GAM-01	4.03	0.47		PCI/GDRY	J
1100228	B1.11658P	RMB-WST29B	U234	WASTE	NAREL U-EICHROM	6.329508	0.93081	0.1005275	PCI/GDRY	
1100228	B1.11658P	RMB-WST29B	U235	WASTE	NAREL U-EICHROM	0.4002483	0.1768539	0.07232393	PCI/GDRY	J
1100228	B1.11658P	RMB-WST29B	U235	WASTE	NAREL GAM-01	0.81	0.1		PCI/GDRY	R
1100228	B1.11658P	RMB-WST29B	U238	WASTE	NAREL U-EICHROM	6.51567	0.93081	0.07995658	PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Bi212	WASTE	NAREL GAM-01	13.7	1.7		PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Bi214	WASTE	NAREL GAM-01	5.03	0.58		PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Pa234m	WASTE	NAREL GAM-01	3.7	2.4		PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Pb212	WASTE	NAREL GAM-01	13.3	1.5		PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Pb214	WASTE	NAREL GAM-01	5.5	0.64		PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Ra223	WASTE	NAREL GAM-01	2.95	0.37		PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Ra226	WASTE	NAREL GAM-01	7	1		PCI/GDRY	R
1100228	B1.11659Q	RMB-WST34B	Ra228	WASTE	NAREL GAM-01	13.3	1.5		PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Th227	WASTE	NAREL TH-EICHROM	0.7341354	0.317219	0.1277939	PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Th228	WASTE	NAREL TH-EICHROM	11.05735	1.35951	0.1151052	PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Th228	WASTE	NAREL GAM-01	11.3	6.9		PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Th230	WASTE	NAREL TH-EICHROM	3.915389	0.6072478	0.08465216	PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Th232	WASTE	NAREL TH-EICHROM	8.972766	1.087608	0.1069481	PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Th234	WASTE	NAREL GAM-01	2.38	0.65		PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	Tl208	WASTE	NAREL GAM-01	4.31	0.5		PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	U234	WASTE	NAREL U-EICHROM	3.67974	0.6163112	0.1024164	PCI/GDRY	
1100228	B1.11659Q	RMB-WST34B	U235	WASTE	NAREL GAM-01	0.193	0.047		PCI/GDRY	R
1100228	B1.11659Q	RMB-WST34B	U235	WASTE	NAREL U-EICHROM	0.3262824	0.1540778	0.06815676	PCI/GDRY	J
1100228	B1.11659Q	RMB-WST34B	U238	WASTE	NAREL U-EICHROM	3.734121	0.6163112	0.07531685	PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Bi212	WASTE	NAREL GAM-01	13.1	1.6		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Bi212	WASTE	NAREL GAM-01	12.7	1.5		PCI/GDRY	

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1100228	B1.11660H	RMB-WST37A	Bi214	WASTE	NAREL GAM-01	5.09	0.59		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Bi214	WASTE	NAREL GAM-01	5.27	0.61		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Pa234m	WASTE	NAREL GAM-01	5.4	2.2		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Pa234m	WASTE	NAREL GAM-01	5	2.1		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Pb212	WASTE	NAREL GAM-01	12.1	1.4		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Pb212	WASTE	NAREL GAM-01	12.3	1.4		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Pb214	WASTE	NAREL GAM-01	5.73	0.66		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Pb214	WASTE	NAREL GAM-01	5.61	0.65		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Ra223	WASTE	NAREL GAM-01	2.69	0.35		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Ra223	WASTE	NAREL GAM-01	2.75	0.34		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Ra226	WASTE	NAREL GAM-01	10.8	1.3		PCI/GDRY	R
1100228	B1.11660H	RMB-WST37A	Ra226	WASTE	NAREL GAM-01	10.4	1.4		PCI/GDRY	R
1100228	B1.11660H	RMB-WST37A	Ra228	WASTE	NAREL GAM-01	12.2	1.4		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Ra228	WASTE	NAREL GAM-01	12.2	1.4		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Th227	WASTE	NAREL TH-EICHROM	0.8410083	0.3074654	0.1329336	PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Th228	WASTE	NAREL GAM-01	14.5	8		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Th228	WASTE	NAREL TH-EICHROM	9.856978	1.175603	0.09585686	PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Th228	WASTE	NAREL GAM-01	16.3	6		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Th230	WASTE	NAREL TH-EICHROM	3.590111	0.5244998	0.05009877	PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Th232	WASTE	NAREL TH-EICHROM	10.03784	1.175603	0.07587161	PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Th234	WASTE	NAREL GAM-01	2.37	0.51		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Th234	WASTE	NAREL GAM-01	2.27	0.63		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Tl208	WASTE	NAREL GAM-01	3.87	0.45		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	Tl208	WASTE	NAREL GAM-01	3.97	0.46		PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	U234	WASTE	NAREL U-EICHROM	3.590111	0.5697153	0.0825635	PCI/GDRY	
1100228	B1.11660H	RMB-WST37A	U235	WASTE	NAREL GAM-01	0.657	0.082		PCI/GDRY	R
1100228	B1.11660H	RMB-WST37A	U235	WASTE	NAREL GAM-01	0.617	0.083		PCI/GDRY	R
1100228	B1.11660H	RMB-WST37A	U235	WASTE	NAREL U-EICHROM	0.2351206	0.1175603	0.0592323	PCI/GDRY	J
1100228	B1.11660H	RMB-WST37A	U238	WASTE	NAREL U-EICHROM	3.816188	0.5968446	0.06547204	PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Bi212	WASTE	NAREL GAM-01	16.2	2		PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Bi214	WASTE	NAREL GAM-01	4.61	0.54		PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Pa234m	WASTE	NAREL GAM-01	5.2	2.8		PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Pb212	WASTE	NAREL GAM-01	15.4	1.8		PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Pb214	WASTE	NAREL GAM-01	5.15	0.6		PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Ra223	WASTE	NAREL GAM-01	3.19	0.42		PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Ra226	WASTE	NAREL GAM-01	9.1	1.3		PCI/GDRY	R
1100228	B1.11661J	RMB-WST37B	Ra228	WASTE	NAREL GAM-01	16.1	1.9		PCI/GDRY	

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1100228	B1.11661J	RMB-WST37B	Th227	WASTE	NAREL TH-EICHROM	1.400953	0.454855	0.1764838	PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Th228	WASTE	NAREL TH-EICHROM	13.73662	1.546507	0.08842381	PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Th228	WASTE	NAREL GAM-01	17	11		PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Th230	WASTE	NAREL TH-EICHROM	4.812366	0.7095737	0.1009778	PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Th232	WASTE	NAREL TH-EICHROM	14.91924	1.728449	0.1009778	PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Th234	WASTE	NAREL GAM-01	2.93	0.87		PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	Tl208	WASTE	NAREL GAM-01	4.92	0.57		PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	U234	WASTE	NAREL U-EICHROM	4.448482	0.7186709	0.09051614	PCI/GDRY	
1100228	B1.11661J	RMB-WST37B	U235	WASTE	NAREL U-EICHROM	0.2183304	0.1273594	0.0715032	PCI/GDRY	J
1100228	B1.11661J	RMB-WST37B	U235	WASTE	NAREL GAM-01	0.573	0.083		PCI/GDRY	R
1100228	B1.11661J	RMB-WST37B	U238	WASTE	NAREL U-EICHROM	3.729811	0.6276999	0.05967698	PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Bi212	WASTE	NAREL GAM-01	4.98	0.61		PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Bi214	WASTE	NAREL GAM-01	1.01	0.12		PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Pa234m	WASTE	NAREL GAM-01	0.76	0.86		PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Pb212	WASTE	NAREL GAM-01	4.56	0.53		PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Pb214	WASTE	NAREL GAM-01	1.12	0.13		PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Ra226	WASTE	NAREL GAM-01	2.19	0.36		PCI/GDRY	R
1100228	B1.11720C	FBS-WST43A	Ra228	WASTE	NAREL GAM-01	4.73	0.55		PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Th227	WASTE	NAREL TH-EICHROM	0.2997969	0.1921775	0.1168439	PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Th228	WASTE	NAREL TH-EICHROM	4.112598	0.614968	0.1391365	PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Th228	WASTE	NAREL GAM-01	4.9	3.4		PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Th230	WASTE	NAREL TH-EICHROM	0.8993906	0.2383001	0.09762617	PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Th232	WASTE	NAREL TH-EICHROM	4.235592	0.6226551	0.07763971	PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Th234	WASTE	NAREL GAM-01	0.81	0.14		PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	Tl208	WASTE	NAREL GAM-01	1.44	0.17		PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	U234	WASTE	NAREL U-EICHROM	1.045446	0.2536743	0.076871	PCI/GDRY	
1100228	B1.11720C	FBS-WST43A	U235	WASTE	NAREL GAM-01	0.136	0.022		PCI/GDRY	R
1100228	B1.11720C	FBS-WST43A	U235	WASTE	NAREL U-EICHROM	0.1306807	0.0922452	0.0922452	PCI/GDRY	J
1100228	B1.11720C	FBS-WST43A	U238	WASTE	NAREL U-EICHROM	0.8686423	0.230613	0.05088861	PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Bi212	SEDIMENT	NAREL GAM-01	11.5	1.4		PCI/GDRY	

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1100228	B1.11721D	RMA-SD57	Bi214	SEDIMENT	NAREL GAM-01	2.71	0.32		PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Pa234m	SEDIMENT	NAREL GAM-01	3	1.7		PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Pb212	SEDIMENT	NAREL GAM-01	11	1.3		PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Pb214	SEDIMENT	NAREL GAM-01	2.89	0.34		PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Ra223	SEDIMENT	NAREL GAM-01	2.15	0.28		PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Ra226	SEDIMENT	NAREL GAM-01	5.01	0.74		PCI/GDRY	R
1100228	B1.11721D	RMA-SD57	Ra228	SEDIMENT	NAREL GAM-01	11.2	1.3		PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Th227	SEDIMENT	NAREL TH-EICHROM	0.654997	0.280713	0.1824634	PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Th228	SEDIMENT	NAREL GAM-01	8.1	5.9		PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Th228	SEDIMENT	NAREL TH-EICHROM	10.29281	1.216423	0.09918526	PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Th230	SEDIMENT	NAREL TH-EICHROM	1.768492	0.3462127	0.05483261	PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Th232	SEDIMENT	NAREL TH-EICHROM	9.637814	1.122852	0.05473904	PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Th234	SEDIMENT	NAREL GAM-01	1.38	0.3		PCI/GDRY	
1100228	B1.11721D	RMA-SD57	Tl208	SEDIMENT	NAREL GAM-01	3.59	0.41		PCI/GDRY	
1100228	B1.11721D	RMA-SD57	U234	SEDIMENT	NAREL U-EICHROM	1.235137	0.280713	0.05286761	PCI/GDRY	
1100228	B1.11721D	RMA-SD57	U235	SEDIMENT	NAREL GAM-01	0.308	0.046		PCI/GDRY	R
1100228	B1.11721D	RMA-SD57	U235	SEDIMENT	NAREL U-EICHROM	0.08795673	0.08514961	0.1057352	PCI/GDRY	U
1100228	B1.11721D	RMA-SD57	U238	SEDIMENT	NAREL U-EICHROM	1.207066	0.280713	0.07008468	PCI/GDRY	
1100228	B1.11722E	RMA-SD58	Bi212	SEDIMENT	NAREL GAM-01	7.42	0.9		PCI/GDRY	
1100228	B1.11722E	RMA-SD58	Bi214	SEDIMENT	NAREL GAM-01	2.04	0.24		PCI/GDRY	
1100228	B1.11722E	RMA-SD58	Pa234m	SEDIMENT	NAREL GAM-01	3.3	1.4		PCI/GDRY	
1100228	B1.11722E	RMA-SD58	Pb212	SEDIMENT	NAREL GAM-01	6.7	0.77		PCI/GDRY	
1100228	B1.11722E	RMA-SD58	Pb214	SEDIMENT	NAREL GAM-01	2.15	0.25		PCI/GDRY	
1100228	B1.11722E	RMA-SD58	Ra226	SEDIMENT	NAREL GAM-01	3.76	0.59		PCI/GDRY	R
1100228	B1.11722E	RMA-SD58	Ra228	SEDIMENT	NAREL GAM-01	7.59	0.88		PCI/GDRY	
1100228	B1.11722E	RMA-SD58	Th227	SEDIMENT	NAREL TH-EICHROM	0.2013858	0.1556163	0.1574471	PCI/GDRY	
1100228	B1.11722E	RMA-SD58	Th228	SEDIMENT	NAREL TH-EICHROM	7.231581	0.91539	0.1418854	PCI/GDRY	
1100228	B1.11722E	RMA-SD58	Th230	SEDIMENT	NAREL TH-EICHROM	1.510394	0.3112326	0.07423813	PCI/GDRY	
1100228	B1.11722E	RMA-SD58	Th232	SEDIMENT	NAREL TH-EICHROM	6.471807	0.8421588	0.05593033	PCI/GDRY	
1100228	B1.11722E	RMA-SD58	Tl208	SEDIMENT	NAREL GAM-01	2.3	0.27		PCI/GDRY	
1100228	B1.11722E	RMA-SD58	U234	SEDIMENT	NAREL U-EICHROM	1.208315	0.274617	0.05098723	PCI/GDRY	

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1100228	B1.11722E	RMA-SD58	U235	SEDIMENT	NAREL U-EICHROM	0.06590807	0.07048503	0.08082893	PCI/GDRY	U
1100228	B1.11722E	RMA-SD58	U235	SEDIMENT	NAREL GAM-01	0.236	0.037		PCI/GDRY	R
1100228	B1.11722E	RMA-SD58	U238	SEDIMENT	NAREL U-EICHROM	1.281546	0.2837709	0.08513127	PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Bi212	SEDIMENT	NAREL GAM-01	11.9	1.4		PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Bi214	SEDIMENT	NAREL GAM-01	3.11	0.36		PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Pa234m	SEDIMENT	NAREL GAM-01	3.7	1.6		PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Pb212	SEDIMENT	NAREL GAM-01	10.7	1.2		PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Pb214	SEDIMENT	NAREL GAM-01	3.5	0.41		PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Ra223	SEDIMENT	NAREL GAM-01	2.29	0.29		PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Ra226	SEDIMENT	NAREL GAM-01	6	0.87		PCI/GDRY	R
1100228	B1.11723F	RMA-SD59	Ra228	SEDIMENT	NAREL GAM-01	11.4	1.3		PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Th227	SEDIMENT	NAREL TH-EICHROM	0.1667178	0.1296694	0.1250384	PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Th228	SEDIMENT	NAREL GAM-01	10.3	7.5		PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Th228	SEDIMENT	NAREL TH-EICHROM	8.706373	1.018831	0.1176287	PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Th230	SEDIMENT	NAREL TH-EICHROM	1.685702	0.3241735	0.09215789	PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Th232	SEDIMENT	NAREL TH-EICHROM	8.798995	1.018831	0.05112679	PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Th234	SEDIMENT	NAREL GAM-01	1.39	0.4		PCI/GDRY	
1100228	B1.11723F	RMA-SD59	Tl208	SEDIMENT	NAREL GAM-01	3.43	0.4		PCI/GDRY	
1100228	B1.11723F	RMA-SD59	U234	SEDIMENT	NAREL U-EICHROM	1.333742	0.2871251	0.04677361	PCI/GDRY	
1100228	B1.11723F	RMA-SD59	U235	SEDIMENT	NAREL GAM-01	0.377	0.055		PCI/GDRY	R
1100228	B1.11723F	RMA-SD59	U235	SEDIMENT	NAREL U-EICHROM	0.1380053	0.09169479	0.07418942	PCI/GDRY	J
1100228	B1.11723F	RMA-SD59	U238	SEDIMENT	NAREL U-EICHROM	1.389315	0.2871251	0.06196345	PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Bi212	SEDIMENT	NAREL GAM-01	11.3	1.3		PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Bi214	SEDIMENT	NAREL GAM-01	2.6	0.3		PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Pa234m	SEDIMENT	NAREL GAM-01	2.2	1.3		PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Pb212	SEDIMENT	NAREL GAM-01	10.1	1.2		PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Pb214	SEDIMENT	NAREL GAM-01	2.95	0.34		PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Ra223	SEDIMENT	NAREL GAM-01	2.06	0.27		PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Ra226	SEDIMENT	NAREL GAM-01	4.91	0.77		PCI/GDRY	R
1100228	B1.11724G	RMA-SD60	Ra228	SEDIMENT	NAREL GAM-01	10.8	1.2		PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Th227	SEDIMENT	NAREL TH-EICHROM	0.4763512	0.229015	0.1328287	PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Th228	SEDIMENT	NAREL GAM-01	7.2	6.6		PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Th228	SEDIMENT	NAREL TH-EICHROM	8.977388	1.099272	0.07191071	PCI/GDRY	

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1100228	B1.11724G	RMA-SD60	Th230	SEDIMENT	NAREL TH-EICHROM	1.83212	0.3481028	0.0718191	PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Th232	SEDIMENT	NAREL TH-EICHROM	7.969722	1.007666	0.0717275	PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Th234	SEDIMENT	NAREL GAM-01	0.89	0.37		PCI/GDRY	
1100228	B1.11724G	RMA-SD60	Tl208	SEDIMENT	NAREL GAM-01	3.2	0.37		PCI/GDRY	
1100228	B1.11724G	RMA-SD60	U234	SEDIMENT	NAREL U-EICHROM	1.538981	0.3114604	0.07997204	PCI/GDRY	
1100228	B1.11724G	RMA-SD60	U235	SEDIMENT	NAREL U-EICHROM	0.1557302	0.1007666	0.05743697	PCI/GDRY	J
1100228	B1.11724G	RMA-SD60	U235	SEDIMENT	NAREL GAM-01	0.308	0.048		PCI/GDRY	R
1100228	B1.11724G	RMA-SD60	U238	SEDIMENT	NAREL U-EICHROM	1.52066	0.3114604	0.06348296	PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Bi212	SEDIMENT	NAREL GAM-01	4.89	0.61		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Bi212	SEDIMENT	NAREL GAM-01	4.9	0.61		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Bi214	SEDIMENT	NAREL GAM-01	0.85	0.1		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Bi214	SEDIMENT	NAREL GAM-01	0.87	0.11		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Pa234m	SEDIMENT	NAREL GAM-01	1.9	1.1		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Pa234m	SEDIMENT	NAREL GAM-01	1.2	0.86		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Pb212	SEDIMENT	NAREL GAM-01	4.54	0.52		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Pb212	SEDIMENT	NAREL GAM-01	4.45	0.51		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Pb214	SEDIMENT	NAREL GAM-01	0.92	0.11		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Pb214	SEDIMENT	NAREL GAM-01	0.96	0.12		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Ra226	SEDIMENT	NAREL GAM-01	1.41	0.37		PCI/GDRY	R
1100228	B1.11725H	RMA-SD61	Ra226	SEDIMENT	NAREL GAM-01	1.35	0.36		PCI/GDRY	R
1100228	B1.11725H	RMA-SD61	Ra228	SEDIMENT	NAREL GAM-01	4.83	0.56		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Ra228	SEDIMENT	NAREL GAM-01	4.73	0.55		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Th227	SEDIMENT	NAREL TH-EICHROM	0.158517	0.1320975	0.1003941	PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Th228	SEDIMENT	NAREL GAM-01	5.8	4.3		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Th228	SEDIMENT	NAREL TH-EICHROM	4.394444	0.6252615	0.1153651	PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Th230	SEDIMENT	NAREL TH-EICHROM	0.6252615	0.1849365	0.05442417	PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Th232	SEDIMENT	NAREL TH-EICHROM	3.813215	0.563616	0.09070695	PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Tl208	SEDIMENT	NAREL GAM-01	1.41	0.16		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	Tl208	SEDIMENT	NAREL GAM-01	1.52	0.18		PCI/GDRY	
1100228	B1.11725H	RMA-SD61	U234	SEDIMENT	NAREL U-EICHROM	0.493164	0.158517	0.08066754	PCI/GDRY	
1100228	B1.11725H	RMA-SD61	U235	SEDIMENT	NAREL GAM-01	0.089	0.024		PCI/GDRY	R
1100228	B1.11725H	RMA-SD61	U235	SEDIMENT	NAREL U-EICHROM	0.08013915	0.0722133	0.05785871	PCI/GDRY	J
1100228	B1.11725H	RMA-SD61	U235	SEDIMENT	NAREL GAM-01	0.085	0.023		PCI/GDRY	R

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1100228	B1.11725H	RMA-SD61	U238	SEDIMENT	NAREL U-EICHROM	0.4667445	0.158517	0.06402326	PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Bi212	SEDIMENT	NAREL GAM-01	10.7	1.3		PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Bi214	SEDIMENT	NAREL GAM-01	2.35	0.27		PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Pa234m	SEDIMENT	NAREL GAM-01	2.1	1.2		PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Pb212	SEDIMENT	NAREL GAM-01	9.5	1.1		PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Pb214	SEDIMENT	NAREL GAM-01	2.52	0.29		PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Ra223	SEDIMENT	NAREL GAM-01	2.05	0.25		PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Ra226	SEDIMENT	NAREL GAM-01	4.15	0.63		PCI/GDRY	R
1100228	B1.11726J	RMA-SD62	Ra228	SEDIMENT	NAREL GAM-01	10.3	1.2		PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Th227	SEDIMENT	NAREL TH-EICHROM	0.3189166	0.187598	0.1059929	PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Th228	SEDIMENT	NAREL TH-EICHROM	8.723308	1.031789	0.1369465	PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Th228	SEDIMENT	NAREL GAM-01	7.9	5.1		PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Th230	SEDIMENT	NAREL TH-EICHROM	1.388225	0.3001568	0.05749879	PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Th232	SEDIMENT	NAREL TH-EICHROM	8.254313	1.031789	0.08704547	PCI/GDRY	
1100228	B1.11726J	RMA-SD62	Tl208	SEDIMENT	NAREL GAM-01	3.23	0.37		PCI/GDRY	
1100228	B1.11726J	RMA-SD62	U234	SEDIMENT	NAREL U-EICHROM	1.294426	0.3001568	0.09473699	PCI/GDRY	
1100228	B1.11726J	RMA-SD62	U235	SEDIMENT	NAREL GAM-01	0.26	0.039		PCI/GDRY	R
1100228	B1.11726J	RMA-SD62	U235	SEDIMENT	NAREL U-EICHROM	0.1406985	0.1031789	0.06800427	PCI/GDRY	J
1100228	B1.11726J	RMA-SD62	U238	SEDIMENT	NAREL U-EICHROM	1.172487	0.281397	0.075133	PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Bi212	SEDIMENT	NAREL GAM-01	10.1	1.2		PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Bi214	SEDIMENT	NAREL GAM-01	2.2	0.25		PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Pa234m	SEDIMENT	NAREL GAM-01	2.3	1		PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Pb212	SEDIMENT	NAREL GAM-01	8.39	0.97		PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Pb214	SEDIMENT	NAREL GAM-01	2.25	0.26		PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Ra226	SEDIMENT	NAREL GAM-01	4.22	0.57		PCI/GDRY	R
1100228	B1.11727K	RMA-SD63	Ra228	SEDIMENT	NAREL GAM-01	9.2	1.1		PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Th227	SEDIMENT	NAREL TH-EICHROM	0.374648	0.1966902	0.101155	PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Th227	SEDIMENT	NAREL TH-EICHROM	0.327817	0.1779578	0.1217606	PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Th228	SEDIMENT	NAREL TH-EICHROM	8.42958	1.030282	0.09834509	PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Th228	SEDIMENT	NAREL TH-EICHROM	7.96127	0.93662	0.09553524	PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Th230	SEDIMENT	NAREL TH-EICHROM	1.395564	0.2997184	0.07249439	PCI/GDRY	

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1100228	B1.11727K	RMA-SD63	Th230	SEDIMENT	NAREL TH-EICHROM	1.152043	0.2528874	0.04964086	PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Th232	SEDIMENT	NAREL TH-EICHROM	9.459863	1.123944	0.09132045	PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Th232	SEDIMENT	NAREL TH-EICHROM	8.148594	0.93662	0.07521059	PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Th234	SEDIMENT	NAREL GAM-01	0.54	0.25		PCI/GDRY	
1100228	B1.11727K	RMA-SD63	Tl208	SEDIMENT	NAREL GAM-01	3.06	0.35		PCI/GDRY	
1100228	B1.11727K	RMA-SD63	U234	SEDIMENT	NAREL U-EICHROM	1.283169	0.280986	0.0838275	PCI/GDRY	
1100228	B1.11727K	RMA-SD63	U234	SEDIMENT	NAREL U-EICHROM	1.498592	0.3184508	0.09553524	PCI/GDRY	
1100228	B1.11727K	RMA-SD63	U235	SEDIMENT	NAREL GAM-01	0.265	0.036		PCI/GDRY	R
1100228	B1.11727K	RMA-SD63	U235	SEDIMENT	NAREL U-EICHROM	0.08335918	0.07492959	0.060131	PCI/GDRY	J
1100228	B1.11727K	RMA-SD63	U235	SEDIMENT	NAREL U-EICHROM	0.05807044	0.06650002	0.06340917	PCI/GDRY	U
1100228	B1.11727K	RMA-SD63	U238	SEDIMENT	NAREL U-EICHROM	1.067747	0.2528874	0.06650002	PCI/GDRY	
1100228	B1.11727K	RMA-SD63	U238	SEDIMENT	NAREL U-EICHROM	1.264437	0.2903522	0.07015284	PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Bi212	WASTE	NAREL GAM-01	13.4	1.6		PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Bi214	WASTE	NAREL GAM-01	3.96	0.46		PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Pa234m	WASTE	NAREL GAM-01	1.6	1.9		PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Pb212	WASTE	NAREL GAM-01	12.4	1.4		PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Pb214	WASTE	NAREL GAM-01	4.43	0.51		PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Ra223	WASTE	NAREL GAM-01	2.74	0.34		PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Ra226	WASTE	NAREL GAM-01	7.5	1		PCI/GDRY	R
1100228	B1.11728L	RMA-WST06B(2)	Ra228	WASTE	NAREL GAM-01	13.1	1.5		PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Rn220	WASTE	NAREL GAM-01	18	14		PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Th227	WASTE	NAREL TH-EICHROM	0.8231314	0.2894528	0.1248265	PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Th228	WASTE	NAREL TH-EICHROM	11.30675	1.266356	0.06765959	PCI/GDRY	

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1100228	B1.11728L	RMA-WST06B(2)	Th228	WASTE	NAREL GAM-01	10.9	5		PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Th230	WASTE	NAREL TH-EICHROM	2.903574	0.4613154	0.07751907	PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Th232	WASTE	NAREL TH-EICHROM	10.94493	1.266356	0.07733817	PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Th234	WASTE	NAREL GAM-01	2.85	0.55		PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	Tl208	WASTE	NAREL GAM-01	4.07	0.47		PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	U234	WASTE	NAREL U-EICHROM	1.754808	0.3437252	0.074715	PCI/GDRY	
1100228	B1.11728L	RMA-WST06B(2)	U235	WASTE	NAREL U-EICHROM	0.09497669	0.07869498	0.05906646	PCI/GDRY	J
1100228	B1.11728L	RMA-WST06B(2)	U235	WASTE	NAREL GAM-01	0.473	0.063		PCI/GDRY	R
1100228	B1.11728L	RMA-WST06B(2)	U238	WASTE	NAREL U-EICHROM	2.125669	0.3889522	0.04929743	PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Bi212	WASTE	NAREL GAM-01	16.4	2		PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Bi214	WASTE	NAREL GAM-01	3.68	0.43		PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Pa234m	WASTE	NAREL GAM-01	3.9	2.4		PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Pb212	WASTE	NAREL GAM-01	15.7	1.8		PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Pb214	WASTE	NAREL GAM-01	4.17	0.48		PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Ra223	WASTE	NAREL GAM-01	3.42	0.43		PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Ra226	WASTE	NAREL GAM-01	7.7	1.2		PCI/GDRY	R
1100228	B1.11729M	RMA-WST08B	Ra228	WASTE	NAREL GAM-01	15.7	1.8		PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Th227	WASTE	NAREL TH-EICHROM	0.5533249	0.2630561	0.1197359	PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Th228	WASTE	NAREL TH-EICHROM	12.24572	1.451344	0.1532982	PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Th228	WASTE	NAREL GAM-01	11.5	8.1		PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Th230	WASTE	NAREL TH-EICHROM	3.138531	0.5351831	0.1079437	PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Th232	WASTE	NAREL TH-EICHROM	11.88288	1.451344	0.08535717	PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Th234	WASTE	NAREL GAM-01	2.67	0.69		PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	Tl208	WASTE	NAREL GAM-01	5.03	0.58		PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	U234	WASTE	NAREL U-EICHROM	2.739412	0.5170413	0.09433736	PCI/GDRY	
1100228	B1.11729M	RMA-WST08B	U235	WASTE	NAREL U-EICHROM	0.181418	0.1269926	0.1133863	PCI/GDRY	J
1100228	B1.11729M	RMA-WST08B	U235	WASTE	NAREL GAM-01	0.472	0.071		PCI/GDRY	R
1100228	B1.11729M	RMA-WST08B	U238	WASTE	NAREL U-EICHROM	2.267725	0.453545	0.06222637	PCI/GDRY	

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1100228	B1.11730E	RMA-WST18B	Bi212	WASTE	NAREL GAM-01	16.5	2		PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Bi214	WASTE	NAREL GAM-01	3.67	0.43		PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Pa234m	WASTE	NAREL GAM-01	3	2.5		PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Pb212	WASTE	NAREL GAM-01	16	1.8		PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Pb214	WASTE	NAREL GAM-01	4.22	0.49		PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Ra223	WASTE	NAREL GAM-01	3.28	0.42		PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Ra226	WASTE	NAREL GAM-01	7.6	1.2		PCI/GDRY	R
1100228	B1.11730E	RMA-WST18B	Ra228	WASTE	NAREL GAM-01	16.7	1.9		PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Th227	WASTE	NAREL TH-EICHROM	0.647136	0.2958336	0.2033856	PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Th228	WASTE	NAREL GAM-01	21.5	9.3		PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Th228	WASTE	NAREL TH-EICHROM	15.53126	1.84896	0.1183334	PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Th230	WASTE	NAREL TH-EICHROM	3.355863	0.5639328	0.06600787	PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Th232	WASTE	NAREL TH-EICHROM	14.88413	1.756512	0.06591542	PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Th234	WASTE	NAREL GAM-01	2.02	0.78		PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	Tl208	WASTE	NAREL GAM-01	5.11	0.59		PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	U234	WASTE	NAREL U-EICHROM	3.44831	0.5824224	0.05648573	PCI/GDRY	
1100228	B1.11730E	RMA-WST18B	U235	WASTE	NAREL U-EICHROM	0.2496096	0.138672	0.1127866	PCI/GDRY	J
1100228	B1.11730E	RMA-WST18B	U235	WASTE	NAREL GAM-01	0.476	0.075		PCI/GDRY	R
1100228	B1.11730E	RMA-WST18B	U238	WASTE	NAREL U-EICHROM	2.976826	0.5269536	0.07479043	PCI/GDRY	
1100229	B1.11662K	RMA-SW57	Ra226	WATER-SURFACE	NAREL RA226-EICHROM	6.1	3.7	2.18	PCI/L	
1100229	B1.11662K	RMA-SW57	Ra226	WATER-SURFACE	NAREL RA226-EICHROM	5.7	3.3	2.38	PCI/L	
1100229	B1.11662K	RMA-SW57	Ra228	WATER-SURFACE	NAREL RA-05	0.0211	0.0051	0.00567	PCI/ML	J
1100229	B1.11662K	RMA-SW57	Th227	WATER-SURFACE	NAREL TH-EICHROM	0.38	0.34	0.277	PCI/L	
1100229	B1.11662K	RMA-SW57	Th228	WATER-SURFACE	NAREL TH-EICHROM	3.94	0.77	0.149	PCI/L	
1100229	B1.11662K	RMA-SW57	Th230	WATER-SURFACE	NAREL TH-EICHROM	0.54	0.29	0.198	PCI/L	
1100229	B1.11662K	RMA-SW57	Th232	WATER-SURFACE	NAREL TH-EICHROM	3.4	0.71	0.197	PCI/L	
1100229	B1.11662K	RMA-SW57	U234	WATER-SURFACE	NAREL U-EICHROM	5.12	0.95	0.15	PCI/L	
1100229	B1.11662K	RMA-SW57	U235	WATER-SURFACE	NAREL U-EICHROM	0.11	0.17	0.237	PCI/L	U

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1100229	B1.11662K	RMA-SW57	U238	WATER-SURFACE	NAREL U-EICHROM	3.5	0.76	0.25	PCI/L	
1100229	B1.11663L	RMS-SW45	Ra226	WATER-SURFACE	NAREL RA226-EICHROM	1.35	0.59	0.379	PCI/L	
1100229	B1.11663L	RMS-SW45	Ra228	WATER-SURFACE	NAREL RA-05	0.0164	0.0048	0.00584	PCI/ML	J
1100229	B1.11663L	RMS-SW45	Th227	WATER-SURFACE	NAREL TH-EICHROM	-0.02	0.15	0.394	PCI/L	U
1100229	B1.11663L	RMS-SW45	Th228	WATER-SURFACE	NAREL TH-EICHROM	2.24	0.6	0.307	PCI/L	
1100229	B1.11663L	RMS-SW45	Th230	WATER-SURFACE	NAREL TH-EICHROM	0.54	0.3	0.212	PCI/L	
1100229	B1.11663L	RMS-SW45	Th232	WATER-SURFACE	NAREL TH-EICHROM	1.66	0.51	0.16	PCI/L	
1100229	B1.11663L	RMS-SW45	U234	WATER-SURFACE	NAREL U-EICHROM	9.3	1.4	0.155	PCI/L	
1100229	B1.11663L	RMS-SW45	U235	WATER-SURFACE	NAREL U-EICHROM	0.55	0.33	0.246	PCI/L	
1100229	B1.11663L	RMS-SW45	U238	WATER-SURFACE	NAREL U-EICHROM	5.5	1	0.206	PCI/L	
1100229	B1.11664M	SCA-GW01	Ra226	WATER-GROUND	NAREL RA226-EICHROM	0.15	0.1	0.107	PCI/L	
1100229	B1.11664M	SCA-GW01	Ra228	WATER-GROUND	NAREL RA-05	0.00027	0.00055	0.000924	PCI/ML	U
1100229	B1.11664M	SCA-GW01	Th227	WATER-GROUND	NAREL TH-EICHROM	0.13	0.36	0.541	PCI/L	U
1100229	B1.11664M	SCA-GW01	Th228	WATER-GROUND	NAREL TH-EICHROM	-0.27	0.41	0.988	PCI/L	U
1100229	B1.11664M	SCA-GW01	Th230	WATER-GROUND	NAREL TH-EICHROM	-0.02	0.15	0.386	PCI/L	U
1100229	B1.11664M	SCA-GW01	Th232	WATER-GROUND	NAREL TH-EICHROM	0.22	0.31	0.441	PCI/L	U
1100229	B1.11664M	SCA-GW01	U234	WATER-GROUND	NAREL U-EICHROM	1.1	0.42	0.206	PCI/L	J
1100229	B1.11664M	SCA-GW01	U235	WATER-GROUND	NAREL U-EICHROM	0.06	0.16	0.282	PCI/L	U
1100229	B1.11664M	SCA-GW01	U238	WATER-GROUND	NAREL U-EICHROM	0.65	0.32	0.155	PCI/L	
1100229	B1.11665N	SW-RMA-WST12	Ra226	WATER	NAREL RA226-EICHROM	0.52	0.39	0.281	PCI/L	
1100229	B1.11665N	SW-RMA-WST12	Ra228	WATER	NAREL RA-05	0.005	0.002	0.00283	PCI/ML	J
1100229	B1.11665N	SW-RMA-WST12	Th227	WATER	NAREL TH-EICHROM	0.06	0.23	0.455	PCI/L	U

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1100229	B1.11665N	SW-RMA-WST12	Th228	WATER	NAREL TH-EICHROM	0.91	0.37	0.264	PCI/L	J
1100229	B1.11665N	SW-RMA-WST12	Th230	WATER	NAREL TH-EICHROM	0.1	0.14	0.147	PCI/L	U
1100229	B1.11665N	SW-RMA-WST12	Th232	WATER	NAREL TH-EICHROM	0.31	0.22	0.147	PCI/L	
1100229	B1.11665N	SW-RMA-WST12	U234	WATER	NAREL U-EICHROM	5.34	0.99	0.277	PCI/L	
1100229	B1.11665N	SW-RMA-WST12	U235	WATER	NAREL U-EICHROM	0.24	0.23	0.244	PCI/L	U
1100229	B1.11665N	SW-RMA-WST12	U238	WATER	NAREL U-EICHROM	2.5	0.64	0.154	PCI/L	
1100229	B1.11666P	UCP-SW35	Ra226	WATER-SURFACE	NAREL RA226-EICHROM	0.16	0.11	0.0963	PCI/L	
1100229	B1.11666P	UCP-SW35	Ra226	WATER-SURFACE	NAREL RA226-EICHROM	0.15	0.12	0.144	PCI/L	
1100229	B1.11666P	UCP-SW35	Ra228	WATER-SURFACE	NAREL RA-05	0.00102	0.00046	0.000656	PCI/ML	J
1100229	B1.11666P	UCP-SW35	Th227	WATER-SURFACE	NAREL TH-EICHROM	0.04	0.17	0.331	PCI/L	U
1100229	B1.11666P	UCP-SW35	Th228	WATER-SURFACE	NAREL TH-EICHROM	0.69	0.31	0.225	PCI/L	J
1100229	B1.11666P	UCP-SW35	Th230	WATER-SURFACE	NAREL TH-EICHROM	0.12	0.14	0.135	PCI/L	U
1100229	B1.11666P	UCP-SW35	Th232	WATER-SURFACE	NAREL TH-EICHROM	0.11	0.14	0.178	PCI/L	U
1100229	B1.11666P	UCP-SW35	U234	WATER-SURFACE	NAREL U-EICHROM	1.17	0.4	0.2	PCI/L	
1100229	B1.11666P	UCP-SW35	U235	WATER-SURFACE	NAREL U-EICHROM	0.06	0.13	0.209	PCI/L	U
1100229	B1.11666P	UCP-SW35	U238	WATER-SURFACE	NAREL U-EICHROM	0.98	0.36	0.132	PCI/L	
1100229	B1.11667Q	UCP-SW39	Ra226	WATER-SURFACE	NAREL RA226-EICHROM	0.68	0.41	0.245	PCI/L	
1100229	B1.11667Q	UCP-SW39	Ra228	WATER-SURFACE	NAREL RA-05	0.0099	0.004	0.0054	PCI/ML	J
1100229	B1.11667Q	UCP-SW39	Th227	WATER-SURFACE	NAREL TH-EICHROM	0.21	0.32	0.45	PCI/L	U
1100229	B1.11667Q	UCP-SW39	Th228	WATER-SURFACE	NAREL TH-EICHROM	2.92	0.73	0.306	PCI/L	
1100229	B1.11667Q	UCP-SW39	Th230	WATER-SURFACE	NAREL TH-EICHROM	0.4	0.29	0.278	PCI/L	
1100229	B1.11667Q	UCP-SW39	Th232	WATER-SURFACE	NAREL TH-EICHROM	1.76	0.56	0.242	PCI/L	

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1100229	B1.11667Q	UCP-SW39	U234	WATER-SURFACE	NAREL U-EICHROM	1.88	0.59	0.313	PCI/L	
1100229	B1.11667Q	UCP-SW39	U235	WATER-SURFACE	NAREL U-EICHROM	0.29	0.26	0.209	PCI/L	
1100229	B1.11667Q	UCP-SW39	U238	WATER-SURFACE	NAREL U-EICHROM	1.36	0.49	0.231	PCI/L	
1100229	B1.11668R	SCA-GW05	Ra226	WATER-GROUND	NAREL RA226-EICHROM	0.25	0.29	0.274	PCI/L	U
1100229	B1.11668R	SCA-GW05	Ra228	WATER-GROUND	NAREL RA-05	0.00062	0.00043	0.00065	PCI/ML	U
1100229	B1.11668R	SCA-GW05	Th227	WATER-GROUND	NAREL TH-EICHROM	-0.02	0.12	0.322	PCI/L	U
1100229	B1.11668R	SCA-GW05	Th228	WATER-GROUND	NAREL TH-EICHROM	0.32	0.24	0.311	PCI/L	J
1100229	B1.11668R	SCA-GW05	Th230	WATER-GROUND	NAREL TH-EICHROM	0.18	0.16	0.131	PCI/L	
1100229	B1.11668R	SCA-GW05	Th232	WATER-GROUND	NAREL TH-EICHROM	-0.02	0.07	0.198	PCI/L	U
1100229	B1.11668R	SCA-GW05	U234	WATER-GROUND	NAREL U-EICHROM	0.54	0.28	0.218	PCI/L	J
1100229	B1.11668R	SCA-GW05	U235	WATER-GROUND	NAREL U-EICHROM	0.07	0.13	0.157	PCI/L	U
1100229	B1.11668R	SCA-GW05	U238	WATER-GROUND	NAREL U-EICHROM	0.38	0.23	0.173	PCI/L	
1100229	B1.11669T	SCA-GW06	Ra226	WATER-GROUND	NAREL RA226-EICHROM	0.32	0.4	0.624	PCI/L	U
1100229	B1.11669T	SCA-GW06	Ra228	WATER-GROUND	NAREL RA-05	0.0005	0.00082	0.00136	PCI/ML	U
1100229	B1.11669T	SCA-GW06	Th227	WATER-GROUND	NAREL TH-EICHROM	0.09	0.2	0.316	PCI/L	U
1100229	B1.11669T	SCA-GW06	Th228	WATER-GROUND	NAREL TH-EICHROM	0.62	0.29	0.215	PCI/L	J
1100229	B1.11669T	SCA-GW06	Th230	WATER-GROUND	NAREL TH-EICHROM	0.06	0.1	0.129	PCI/L	U
1100229	B1.11669T	SCA-GW06	Th232	WATER-GROUND	NAREL TH-EICHROM	0.03	0.086	0.128	PCI/L	U
1100229	B1.11669T	SCA-GW06	U234	WATER-GROUND	NAREL U-EICHROM	0.92	0.35	0.132	PCI/L	J
1100229	B1.11669T	SCA-GW06	U235	WATER-GROUND	NAREL U-EICHROM	0.07	0.13	0.158	PCI/L	U
1100229	B1.11669T	SCA-GW06	U238	WATER-GROUND	NAREL U-EICHROM	0.56	0.28	0.201	PCI/L	
1100229	B1.11670K	SCA-GW08	Ra226	WATER-GROUND	NAREL RA226-EICHROM	0.31	0.13	0.0771	PCI/L	

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1100229	B1.11670K	SCA-GW08	Ra228	WATER-GROUND	NAREL RA-05	0.00082	0.00054	0.000825	PCI/ML	U
1100229	B1.11670K	SCA-GW08	Th227	WATER-GROUND	NAREL TH-EICHROM	0.11	0.24	0.388	PCI/L	U
1100229	B1.11670K	SCA-GW08	Th228	WATER-GROUND	NAREL TH-EICHROM	0.49	0.31	0.348	PCI/L	J
1100229	B1.11670K	SCA-GW08	Th230	WATER-GROUND	NAREL TH-EICHROM	-0.012	0.081	0.209	PCI/L	U
1100229	B1.11670K	SCA-GW08	Th232	WATER-GROUND	NAREL TH-EICHROM	-0.012	0.081	0.209	PCI/L	U
1100229	B1.11670K	SCA-GW08	U234	WATER-GROUND	NAREL U-EICHROM	0.48	0.26	0.186	PCI/L	J
1100229	B1.11670K	SCA-GW08	U235	WATER-GROUND	NAREL U-EICHROM	0.12	0.16	0.168	PCI/L	U
1100229	B1.11670K	SCA-GW08	U238	WATER-GROUND	NAREL U-EICHROM	1.12	0.4	0.213	PCI/L	
1100229	B1.11671L	SCA-GW10	Ra226	WATER-GROUND	NAREL RA226-EICHROM	0.25	0.38	0.629	PCI/L	U
1100229	B1.11671L	SCA-GW10	Ra228	WATER-GROUND	NAREL RA-05	0.0006	0.0017	0.00281	PCI/ML	U
1100229	B1.11671L	SCA-GW10	Th227	WATER-GROUND	NAREL TH-EICHROM	0.22	0.25	0.241	PCI/L	U
1100229	B1.11671L	SCA-GW10	Th228	WATER-GROUND	NAREL TH-EICHROM	0.41	0.25	0.234	PCI/L	J
1100229	B1.11671L	SCA-GW10	Th230	WATER-GROUND	NAREL TH-EICHROM	0.02	0.09	0.172	PCI/L	U
1100229	B1.11671L	SCA-GW10	Th232	WATER-GROUND	NAREL TH-EICHROM	0.02	0.089	0.172	PCI/L	U
1100229	B1.11671L	SCA-GW10	U234	WATER-GROUND	NAREL U-EICHROM	0.86	0.35	0.143	PCI/L	J
1100229	B1.11671L	SCA-GW10	U235	WATER-GROUND	NAREL U-EICHROM	0.26	0.23	0.227	PCI/L	
1100229	B1.11671L	SCA-GW10	U238	WATER-GROUND	NAREL U-EICHROM	1.29	0.44	0.239	PCI/L	
1100229	B1.11672M	WST-RIN01	Ra226	WATER	NAREL RA226-EICHROM	0.049	0.061	0.0763	PCI/L	U
1100229	B1.11672M	WST-RIN01	Ra228	WATER	NAREL RA-05	-0.00007	0.00049	0.000864	PCI/ML	U
1100229	B1.11672M	WST-RIN01	Ra228	WATER	NAREL RA-05	0.00014	0.00054	0.00093	PCI/ML	U
1100229	B1.11672M	WST-RIN01	Th227	WATER	NAREL TH-EICHROM	0.15	0.23	0.318	PCI/L	U
1100229	B1.11672M	WST-RIN01	Th228	WATER	NAREL TH-EICHROM	0.62	0.29	0.233	PCI/L	J
1100229	B1.11672M	WST-RIN01	Th230	WATER	NAREL TH-EICHROM	0.04	0.11	0.196	PCI/L	U

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1100229	B1.11672M	WST-RIN01	Th232	WATER	NAREL TH-EICHROM	0.01	0.091	0.196	PCI/L	U
1100229	B1.11672M	WST-RIN01	U234	WATER	NAREL U-EICHROM	0.21	0.17	0.13	PCI/L	J
1100229	B1.11672M	WST-RIN01	U235	WATER	NAREL U-EICHROM	0.29	0.22	0.156	PCI/L	
1100229	B1.11672M	WST-RIN01	U238	WATER	NAREL U-EICHROM	0.07	0.13	0.198	PCI/L	U
1100229	B1.11673N	SCA-GW02	Ra226	WATER-GROUND	NAREL RA226-EICHROM	0.072	0.074	0.0986	PCI/L	U
1100229	B1.11673N	SCA-GW02	Ra228	WATER-GROUND	NAREL RA-05	0.00081	0.00054	0.00083	PCI/ML	U
1100229	B1.11673N	SCA-GW02	Ra228	WATER-GROUND	NAREL RA-05	0.0209	0.002	0.000827	PCI/ML	J
1100229	B1.11673N	SCA-GW02	Th227	WATER-GROUND	NAREL TH-EICHROM	0.17	0.27	0.415	PCI/L	U
1100229	B1.11673N	SCA-GW02	Th228	WATER-GROUND	NAREL TH-EICHROM	0.52	0.28	0.241	PCI/L	J
1100229	B1.11673N	SCA-GW02	Th230	WATER-GROUND	NAREL TH-EICHROM	0.08	0.13	0.178	PCI/L	U
1100229	B1.11673N	SCA-GW02	Th232	WATER-GROUND	NAREL TH-EICHROM	0.05	0.11	0.177	PCI/L	U
1100229	B1.11673N	SCA-GW02	U234	WATER-GROUND	NAREL U-EICHROM	0.12	0.14	0.135	PCI/L	U
1100229	B1.11673N	SCA-GW02	U235	WATER-GROUND	NAREL U-EICHROM	0.12	0.17	0.245	PCI/L	U
1100229	B1.11673N	SCA-GW02	U238	WATER-GROUND	NAREL U-EICHROM	0.31	0.22	0.225	PCI/L	
1100229	B1.11674P	SCA-GW07	Ra226	WATER-GROUND	NAREL RA226-EICHROM	0.25	0.14	0.106	PCI/L	
1100229	B1.11674P	SCA-GW07	Ra228	WATER-GROUND	NAREL RA-05	0.00072	0.00052	0.000799	PCI/ML	U
1100229	B1.11674P	SCA-GW07	Th227	WATER-GROUND	NAREL TH-EICHROM	0.21	0.24	0.227	PCI/L	U
1100229	B1.11674P	SCA-GW07	Th227	WATER-GROUND	NAREL TH-EICHROM	-0.02	0.12	0.321	PCI/L	U
1100229	B1.11674P	SCA-GW07	Th228	WATER-GROUND	NAREL TH-EICHROM	0.49	0.25	0.185	PCI/L	J
1100229	B1.11674P	SCA-GW07	Th228	WATER-GROUND	NAREL TH-EICHROM	0.87	0.34	0.173	PCI/L	J
1100229	B1.11674P	SCA-GW07	Th230	WATER-GROUND	NAREL TH-EICHROM	0.12	0.14	0.131	PCI/L	U
1100229	B1.11674P	SCA-GW07	Th230	WATER-GROUND	NAREL TH-EICHROM	0.028	0.082	0.122	PCI/L	U

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1100229	B1.11674P	SCA-GW07	Th232	WATER-GROUND	NAREL TH-EICHROM	-0.028	0.068	0.204	PCI/L	U
1100229	B1.11674P	SCA-GW07	Th232	WATER-GROUND	NAREL TH-EICHROM	0	0.064	0.131	PCI/L	U
1100229	B1.11674P	SCA-GW07	U234	WATER-GROUND	NAREL U-EICHROM	1.58	0.43	0.269	PCI/L	
1100229	B1.11674P	SCA-GW07	U234	WATER-GROUND	NAREL U-EICHROM	1.36	0.4	0.173	PCI/L	
1100229	B1.11674P	SCA-GW07	U235	WATER-GROUND	NAREL U-EICHROM	0.26	0.21	0.27	PCI/L	U
1100229	B1.11674P	SCA-GW07	U235	WATER-GROUND	NAREL U-EICHROM	0.04	0.12	0.208	PCI/L	U
1100229	B1.11674P	SCA-GW07	U238	WATER-GROUND	NAREL U-EICHROM	1.39	0.41	0.206	PCI/L	
1100229	B1.11674P	SCA-GW07	U238	WATER-GROUND	NAREL U-EICHROM	1.12	0.36	0.235	PCI/L	