FINAL MONITORING AND RESIDENTIAL WELL SAMPLING REPORT

TUTU WELLFIELD SITE

St. Thomas, U. S. Virgin Islands

SSID No.: 021D
EPA ID No.: VID982272569

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DC No: STARTV-01-F-0053
TD No: TO-0032-0052
EPA CONTRACT No: 68HE0319D0004

January 2020



616735

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1.0 Introduction

On September 30, 2019 through October 7, 2019, the U.S. Environmental Protection Agency, Region II (EPA) Superfund and Emergency Management Division (SEMD) with support from Weston Solutions, Inc., Superfund Technical Assessment Team V (START V) conducted a monitoring and residential well sampling event as part of Technical Assistance activities at the Tutu Wellfield Site (the Site) located in St. Thomas, U.S. Virgin Islands (USVI). A total of 35 groundwater monitoring wells, one artesian well, and four residential wells situated downgradient from the Site were sampled during the event. The water samples collected were submitted to the assigned laboratory for analysis in order to verify that constituents related to the Site are not present in the water samples. In addition, EPA and START V installed passive diffusion bags (PDBs) in 10 select monitoring wells in order to evaluate its potential use for future sampling events.

1.1 Site Location and Description

The Site is a 1.5 square mile area located on the eastern end of St. Thomas, USVI within the upper Turpentine Run surface drainage basin in the Anna's Retreat area. It is bounded by steep slopes and surrounding hills and lies slightly east of the city of Charlotte Amalie. There are two comingled groundwater contamination plumes at the Site. The higher concentration, northern and upgradient plume has a source near the Curriculum Center. The southern and downgradient plume has a source near the O'Henry Dry Cleaners. Chemicals of concern in groundwater are specific chlorinated volatile organic compounds (CVOCs). The downgradient wells sampled during this event include, 35 groundwater monitoring wells, one artesian well (RD-6), and four residential wells (SMITH, STEELE, DELEGARD, and TILLET).

Refer to Attachment A, Figure 1: Site Location Map and Figure 2: Sampled Well Location Map (Oct. 2019).

1.2 Site History and Background

The EPA identified several parties as potentially responsible for contributing to the contamination plumes. The largest contributor was a source at the Curriculum Center (former LAGA Building). This building was owned and operated by LAGA Textile Company, a clothing manufacturing plant, from 1969 to 1979 when it changed hands to Panex Co. until 1982. Extensive use of tetrachloroethene (PCE) occurred at the plant via an industrial size dry cleaning process that utilized PCE as dry cleaning solvent. Since 1982, the building has been used as a library, warehouse, and school offices. The remedy for the groundwater contamination consists of two groundwater treatment facilities (GWTF). GWTF #1 includes groundwater extraction and treatment by air stripping near the Curriculum Center source and previously also included soil vapor extraction (SVE). GWTF #2 includes groundwater extraction and air stripping at the downgradient end of the Curriculum Center plume just upgradient of the O'Henry plume.

Operation of these systems were transferred from EPA to the Department of Planning and Natural Resources (DPNR) in 2014, but due to the impact of Hurricane Irma/Maria in 2017, the systems are now inoperable. Due to the extended shutdown of the Pump & Treatment (P&T) systems, EPA is concerned that the contaminant plume has extended downgradient and is potentially

impacting additional residential wells. Concurrent with this October 2019 groundwater sampling event, EPA evaluated the repair requirements for both P&T systems. Refer to Table 4: Historical Comparison of Groundwater Analytical Data, Prior to and After Hurricane Maria.

On June 4, 2019, EPA and Weston Solutions, Inc., Removal Support Team 3 (RST 3), currently START V, sampled three residential wells, SMITH, STEELE, and DELEGARD, located downgradient from the Site. A total of four water samples, including one field duplicate, were collected from taps and faucets associated with the wells. Two water samples, including one field duplicate, were collected from SMITH well, one water sample each was collected from STEELE and DELEGARD wells. The water samples were analyzed by the assigned laboratory for target compound list (TCL) VOCs in order to verify that constituents related to the Site are not present in the residential well water. The analytical results of the water samples were compared with the EPA Maximum Contaminant Levels (MCLs) in accordance with the Drinking Water Standards and Health Advisories (DWSHA) dated March 2018. Based on the analytical results, TCL VOCs were either not detected or detected at concentrations well below the EPA MCLs.

In addition, EPA conducted a reconnaissance to locate 70 groundwater monitoring wells associated to the Site. The coordinates, condition, headspace reading, water level, and depth of each monitoring well were documented as part of the reconnaissance.

2.0 Scope of Work

The scope of work for the sampling event included the collection of water samples from 35 groundwater monitoring wells, one artesian well, and one residential well, using low-flow sampling method and the collection of water samples from taps and faucets associated with three residential wells. The water samples were submitted to the assigned laboratory for TCL VOCs analysis. In addition, all Site activities were noted in the Site log book and documented with digital photographs.

In-addition, with the completion of the October 2019 groundwater sampling event, EPA and START V installed PDBs in 10 select monitoring wells in order to evaluate its potential use for future sampling events.

3.0 On-Site Personnel

Name	Affiliation	Duties On-site
Lou DiGuardia	EPA, Region II	On-Scene Coordinator
Gezahegne Bushra	EPA, Region II	On-Scene Coordinator
Gabriela Rodriguez	Weston Solutions, Inc., START V	Site Project Manager, Site Health &Safety, Sample Collection, QA/QC, and Sample Management
Joel Siegel	Weston Solutions, Inc., START V	Sample Collection, GPS, and Sample Management
Hector Rodríguez	Weston Solutions, Inc., START V	Sample Collection, GPS, and Sample Management
Kathryn Donohue	Weston Solutions, Inc., START V	Sample Collection, GPS, and Sample Management

EPA: U.S. Environmental Protection Agency
QA/QC: Quality Control/Quality Assurance
START V: Superfund Technical Assessment Team V
GPS: Global Positioning System

4.0 Site Activities and Observations

On September 30, 2019 through October 7, 2019, EPA On-Scene Coordinators (OSCs) and START V personnel sampled 35 groundwater monitoring wells, one artesian well (RD-6), and four residential wells (SMITH, STEELE, DELEGARD, and TILLET). Water samples were collected from the 35 monitoring wells and the one residential well (TILLET) using low flow sampling method, water samples were collected directly from taps and faucets associated with the remaining three residential wells (SMITH, STEELE, and DELEGARD), and groundwater sample was collected directly from the free flowing water of artesian well RD-6. Since RD-6 is an artesian well, purging was not necessary. A total of 44 water samples, including four field duplicates, were collected from all the wells for laboratory analysis.

On October 7, 2019, EPA deployed PDBs in the following monitoring wells: RD-9, RD-13, MW-15, RD-5, MW-25, DW-2, MW11D, RD-3, RD-8 and OU2-MW-2 in order to evaluate its potential use for future sampling events. Sampling of these PDBs is presently scheduled to occur in March 2020, when EPA and its Emergency and Rapid Response Services (ERRS) contractor performs repairs of the two treatment systems.

Refer to Attachment A, Figure 2: Sampled Well Location Map (Oct. 2019), Attachment B: Sample Collection and Well Information Summary Table, Attachment C: Photographic Documentation Log, and Attachment D: Well Purge Sheets.

5.0 Sampling Methodology

All field sampling activities were performed in accordance with the START V Site-Specific Health and Safety plan and Site-Specific Quality Assurance Project plan, and EPA's Environmental Response Team (ERT)/Scientific, Engineering, Response and Analytical Services (SERAS) contractor's Standard Operating Procedures (SOP) Numbers (Nos.) 2001: *General Field Sampling Guidelines* and 2007: *Groundwater Sampling*. All sampling activities were performed by START V under the direction of the EPA OSCs.

The 35 groundwater monitoring wells and the one residential well (TILLET) were sampled via low-flow sampling methodology using submersible pumps (Grundfos Redi FLO 2 [Serial Nos. P113380101 and P114230033]) and dedicated Teflon tubing. Prior to sampling each well, a water level meter was utilized to collect and document the water level and well depth measurement, following which, a dedicated Teflon tubing attached to the sampling pump was lowered into the well with the pump intake set within the well screen interval. Each well was purged at steady flow rate until water quality indicator field parameters were stabilized. Water quality indicator parameters including pH, specific electric conductance (SEC), oxidation-reduction potential (ORP), turbidity, and dissolved oxygen (DO), were monitored using a water quality meter (Horiba U52 [Serial No. 3DM16249] and Horiba U500 [Serial No. FATHUG8A]) with flow through cell, and recorded in five-minute intervals during purging. After the water quality indicator field parameters had stabilized (+/- 10 percent [%]) following successful purging, groundwater samples were collected directly from the pump discharge tubing into three dedicated 40 milliliter (ml) volatile organic analysis (VOA) vials with Teflon-lined septum caps, preserved with HCl to pH below 2, and stored on ice immediately following collection to maintain a temperature of 4 Degrees Celsius (^{o}C).

Prior to sampling each of the three residential well water supply systems, it was necessary to evacuate the standing water from the well, storage tank, and plumbing. This was accomplished by opening the cold water tap and purging the system for approximately 10 minutes and listening for the pump to turn on. This served as a good indicator that the wellhead, tank, and plumbing are being evacuated. If feasible, aerators, strainers and/or hose attachments present on the taps/faucet were removed prior to purging. Samples were then collected at a low, non-aerating flow rate into three dedicated 40 ml VOA vials with Teflon-lined septum caps, preserved with HCl to pH below 2, and stored on ice immediately following collection to maintain a temperature of 4 ^{o}C.

All the water samples were collected for definitive data objective. Field duplicates and trip blanks were collected for quality assurance/quality control (QA/QC) purposes. All sample information were entered into the EPA SCRIBE database from which sample labels and Chains of Custody (COC) Record were generated.

As part of this sampling event Remedial Action, START V was tasked with the deployment of PDB samplers in 10 monitoring wells at the Site. PDB samplers are made of low density polyethylene (LDPE), which acts as a semipermeable membrane. The PDB sampler is filled with deionized water and is in the shape of an 18 inch long cylindrical tube. VOCs, excluding certain ketones, ethers and alcohols, diffuse readily through the membrane. Equilibrium is established between the VOCs in the bag and those in the surrounding groundwater. Upon retrieval, the bags are opened to fill three 40 ml VOA vials preserved with HCl which are placed on ice and submitted to the laboratory for VOC analysis. Sampling of these PDBs is presently scheduled to occur in March 2020, when EPA and the ERRS contractor perform repairs of the two treatment systems.

6.0 Laboratory Receiving Samples

The following laboratory was utilized for sample analysis during the sampling event.

Laboratory Name/Location	Sample Matrix	Analyses
Chemtech Consulting Group 284 Sheffield Street Mountainside, NJ 07092	Aqueous	Target Compound List Volatile Organic Compounds

7.0 Sample Dispatch

On October 2, 2019, a total of 10 groundwater samples including one field duplicate, and one trip blank, documented under COC Record No. 2-100219-0032-0052-0001 were shipped via FedEx Airbill No. 8147-6505-3248 to Chemtech Consulting Group (Chemtech) located in Mountainside, New Jersey for TCL VOCs analysis.

On October 7, 2019, a total of 29 groundwater samples including two field duplicates, and two trip blanks and eight rinsate blanks, documented under COC Record No. 2-100719-0032-0052-0001, and a total of five water samples including one field duplicate, and one trip blank, documented

under COC Record No. 2-100719-101523-0004, were shipped via FedEx Airbill No. 8147-6505-3605 to Chemtech located in Mountainside, New Jersey for TCL VOCs analysis.
Refer to Attachment B: Sample Collection and Well Information Summary Table and Attachment E: Chains of Custody Record.

8.0 Analytical Results Summary

The validated analytical results of the water samples collected on September 30, 2019 through October 7, 2019 from 35 monitoring wells, one artesian well, and four residential wells were compared with the EPA MCLs for drinking water in accordance with the DWSHA dated March 2018.

Based on validated analytical results of the water samples collected from the monitoring wells, at least one or more TCL VOCs, including tetrachloroethene, trichloroethene, vinyl chloride, methylene chloride, trans-1,2-dichloroethene, and cis-1,2-dichloroethene, exceeded their respective EPA MCL except for the water samples collected from three monitoring wells, MW-13D, OU2-MW-1, and RD2, where TCL VOCs were not detected.

Based on validated analytical results of the water samples collected from the monitoring wells, concentrations of tetrachloroethene equaled or exceeded the EPA MCL in water samples collected from 13 monitoring wells, including DW-2, MW-12D, MW-7, RD-7, IW-1S, MW-15, MW-1D, OU2-MD-2, OU2-MW-2, OU2-MW-3, OU2-MW-4, OU2-MW-5, and RD-5; concentrations of trichloroethene exceeded the EPA MCL in water samples collected from six monitoring wells, including MW-1D, OU2-MD-2, OU2-MW-2, OU2-MW-3, OU2-MW-4, and OU2-MW-5; concentrations of vinyl chloride exceeded the EPA MCL in water samples collected from seven monitoring wells, including IW-1, IW-2, MW-21D, OU2-MD-2, OU2-MW-2, RD-13, and RD-9; the concentration of trans-1,2-dichloroethene exceeded the EPA MCL in water sample collected from IW-1; and the concentration of cis-1,2-dichloroethene exceeded the EPA MCL in water sample collected from OU2-MD-2.

Based on validated analytical results, concentrations of at least one or more TCL VOCs, including chloromethane, acetone, carbon disulfide, vinyl chloride, methylene chloride, cis-1,2-dichloroethene, 2-butanone, chloroform, benzene, trichloroethene, toluene, o-xylene, m,p-xylene, styrene, dibromochloromethane, and bromoform, were detected in the rinsate blanks. Although the concentrations of all the detected compounds were well below their respective EPA MCLs, except for tetrachloroethene which exceeded the EPA RML in one rinsate blank (RB-1-191004-01), the presence of these low level contaminants in the rinsate blanks suggests that the deionized water utilized in preparing the rinsate blanks may have been contaminated, and/or the pump decontamination process may not be adequate in preventing potential cross contamination during sampling.

Based on validated analytical results, concentrations of at least one or more TCL VOCs, including chloromethane, acetone, chloroform, benzene, toluene, o-xylene, m,p-xylene, and styrene, were detected in the trip blanks. Although the low concentrations of these detected compounds were well below their respective EPA MCLs, their presence in the trip blank suggests that the deionized water utilized in preparing the trip blank may have been contaminated.

Based on validated analytical results of the water samples collected from the residential wells, low level concentrations of at least one or more TCL VOCs, including dichlorodifluoromethane, trans-1,2-dichloroethene, methyl tert-butyl ether, cis-1,2-dichloroethene, chloroform, trichloroethene, and tetrachloroethene, were detected at concentrations well below their respective EPA MCLs in all five water samples, including the one field duplicate, except for tetrachloroethene concentration in sample P0004-TILLET-101005-01 which exceeded the EPA MCL.

Based on validated analytical results, low level concentrations of chloromethane, acetone, toluene, ethylbenzene, o-, m-, and p-xylenes, and styrene, were detected in the trip blank. Although the low concentrations of these detected compounds were well below their respective EPA MCLs, their presence in the trip blank suggests that the deionized water utilized in preparing the trip blank may have been contaminated.

Refer to Attachment A, Figure 2: Sampled Well Location Map (Oct. 2019), Attachment B, Table 2: Validated Monitoring Well Water Analytical Results Summary Table - TCL VOCs Table 3: Validated Residential Well Water Analytical Results Summary Table - TCL VOCs, and Attachment F: Data Validation Report.

9.0 Conclusion

On October 7, 2019, EPA and START V completed a monitoring and residential well sampling event. A total of 39 water samples, including three field duplicates, were collected from 35 monitoring wells and one artesian well, and five water samples, including one field duplicate, were collected from four residential wells (SMITH, STEELE, DELEGARD, and TILLET). All the monitoring wells and TILLET well were sampled using low flow sampling method, water samples were collected directly from taps and faucets associated with the remaining three residential wells, and water sample was collected directly from the free flowing water of artesian well RD-6. All the water samples were analyzed by the assigned laboratory for TCL VOCs. Analytical results were compared with the EPA MCLs contained in the DWSHA dated March 2018.

Based on analytical results of water samples collected from the monitoring wells, at least one or more TCL VOCs, including tetrachloroethene, trichloroethene, vinyl chloride, methylene chloride, trans-1,2-dichloroethene, and cis-1,2-dichloroethene, exceeded their respective EPA MCL except for the water samples collected from three monitoring wells, MW-13D, OU2-MW-1, and RD2, where TCL VOCs were not detected. In addition, concentrations of tetrachloroethene equaled or exceeded the EPA MCL in water samples collected from 13 of the 35 monitoring wells sampled, including DW-2, MW-12D, MW-7, RD-7, IW-1S, MW-15, MW-1D, OU2-MD-2, OU2-MW-2, OU2-MW-3, OU2-MW-4, OU2-MW-5, and RD-5.

Based on analytical results of water samples collected from the residential wells, concentrations of TCL VOCs were well below their respective EPA MCLs in all five water samples, including the one field duplicate, except for tetrachloroethene concentration in water sample collected from TILLET well which exceeded the EPA MCL.

Report prepared by: _____ 1/22/2020
Gabriela Rodriguez Date
START V Site Project Manager

Report reviewed by: _____ 1/22/2020
Bernard Nwosu Date
START V Group Leader

ATTACHMENT A

Figures

Figure 1: Site Location Map
Figure 2: Sampled Well Location Map (Oct. 2019)



Legend

S1 Site Location

N

0 0.125 0.25 0.5 0.75 1 Miles

Weston Solutions, Inc.
Federal East Division

In Association With
Eco-Risk, Avatar Environmental, LLC,
Pro-West & Associates, Inc.,
On-Site Environmental, Inc.,
Sovereign Consulting, Inc.

Figure 1:
Site Location Map

Tutu Well Field Site
St. Thomas, U.S. Virgin Islands

U.S. ENVIRONMENTAL PROTECTION AGENCY
SUPERFUND TECHNICAL ASSESSMENT & RESPONSE TEAM V
CONTRACT # 68HE0319D0004

GIS ANALYST:	M. MANNINO
EPA OSC:	L. DIGUIARDIA
RST SPM:	G. RODRIGUEZ-ROSARIO
FILE NAME::	190808_SLM

DATE MODIFIED: 8/9/2019

Z:\START_V\0032\0052\MXD\190808_SLM.MXD



LEGEND

★ Sampled Well Location (October 2019)

0 100 200 400 600 800 1,000 Feet

SCALE

1:3,500

In Association With
Eco-Risk, Avatar Environmental, LLC,
Pro-West & Associates, Inc.,
On-Site Environmental, Inc.,
Sovereign Consulting, Inc.

Figure 2: Sampled Well Location Map (Oct. 2019)

TuTu Wellfield Site
St. Thomas, U.S. Vigin Islands

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
SUPERFUND TECHNICAL ASSESSMENT & RESPONSE TEAM V
CONTRACT # 68HE0319D0004

GIS ANALYST:	M. MANNINO
EPA OSC:	L. DIGUARDIA
START V SPM:	J. SIEGEL
FILENAME:	191118_Tutu_WellLocs
FIGURE	Not Applicable
REVISION	0.0
DATE MODIFIED	11/19/2019

DOCUMENT PATH: Z:\START_V\00320052\MXD\191118_TUTU_WELLLOCS.MXD

ATTACHMENT B

Tables

Table 1: Sample Collection and Well Information Summary Table
Table 2: Validated Monitoring Well Water Analytical Results Summary Table - TCL VOCs
Table 3: Validated Residential Well Water Analytical Results Summary Table - TCL VOCs
Table 4: Historical Comparison of Groundwater Analytical Data

Table 1: Sample Collection and Well Information Summary Table
Tutu Wellsfield Site
St. Thomas, U.S. Virgin Island
September 30, 2019 through October 7, 2019

Sample Information		Well Construction Information							Well Purge Information				
Sample Date	START V Sample Number	Well ID Number	Well Type	Flush/ Stick-up (F/S)	Well Diameter (inches)	Steel/PVC (S/P)	Total Well Depth (ft. bgs)	Depth to Top of Screen (ft. bgs)	Pump Intake Depth (ft. bgs)	Depth to Water		Total Volume Purged (gallons)	PID (ppm)
										Before Purging (ft. bgs)	After Purging (ft. bgs)		
Curriculum Center/Facility #1 | Groundwater Monitoring Wells													
10/4/2019	IW-1S-001-01 / 02	IW-1S	Monitoring	F	4	S	59.60	40	45	25.55	25.62	5.00	0.00
10/4/2019	IW-1-001-01	IW-1	Monitoring	F	6	S	100.49	75	80	26.18	28.59	5.00	0.00
10/5/2019	IW-2-001-01	IW-2	Monitoring	F	6	S	90.77	75	86	1.20	5.58	5.50	0.00
10/5/2019	RD-9-001-01	RD-9	Monitoring	F	4	S	110.00	85	90	26.59	31.34	NR	0.00
10/4/2019	RD-13-001-01	RD-13	Monitoring	F	4	NR	104.30	100	94	21.83	29.13	4.50	0.00
10/4/2019	MW-1D-001-01	MW-1D	Monitoring	F	6	NR	90.00	70	76	14.00	16.45	4.00	0.00
10/3/2019	MW-13D-001-01	MW-13D	Monitoring	F	6	S	126.35	100	101	60.52	64.10	6.50	0.01
10/4/2019	MW-14-001-01	MW-14	Monitoring	F	4	NR	47.27	25.2	30	20.87	21.28	5.00	0.00
10/3/2019	MW-15-001-01	MW-15	Monitoring	F	6	S	36.80	15	20	5.50	5.61	4.00	0.00
Texaco | Groundwater Monitoring Wells													
10/3/2019	RD-5-001-01	RD-5	Monitoring	F	4	P	45.00	33	37	28.40	28.60	5.50	0.00
10/1/2019	MW-2-001-01	MW-2	Monitoring	F	4	S	27.02	7	15	10.22	10.24	9.25	0.07
10/3/2019	MW-5-001-01	MW-5	Monitoring	F	4	S	40.30	19	24	22.10	22.10	7.00	0.00
10/3/2019	MW-6D-001-01 / 02	MW-6D	Monitoring	F	6	S	51.30	45	40	6.60	6.60	8.00	0.02
10/1/2019	MW-7-001-01	MW-7	Monitoring	NR	4	NR	35.40	15.4	21	16.70	16.80	6.50	0.00
Esso | Groundwater Monitoring Wells													
10/1/2019	MW-8-001-01	MW-8	Monitoring	F	4	P	25.20	5.5	16	13.00	13.05	6.00	0.00
10/3/2019	MW-10D-001-01	MW-10D	Monitoring	F	6	S	61.70	55.1	52	15.76	18.00	7.25	0.23
10/1/2019	MW-25-001-01	MW-25	Monitoring	F	6	S	45.00	25	30	10.47	13.60	6.00	0.00
Facility #2 | Groundwater Monitoring Wells													
10/2/2019	RD-4-001-01	RD-4	Monitoring	F	4	P	263.00	243	250	76.30	82.60	6.50	0.00
9/30/2019	RD-7-001-01	RD-7	Monitoring	F	4	P	83.80	70	75	25.00	25.40	6.00	0.00
10/1/2019	DW-2-001-01	DW-2	Monitoring	F	6	S	72.05	65	61	9.97	10.00	9.25	0.01
10/1/2019	MW-11D-001-01	MW-11D	Monitoring	F	6	S	56.00	53	55	15.50	15.70	7.00	0.00
9/30/2019	MW-12D-001-01 / 02	MW-12D	Monitoring	F	4	S	80.50	60.5	65	22.30	22.30	5.00	0.05

Notes:
START V: Superfund Technical Assessment & Response Team V
ID: Identification
ft.: Feet
bgs: Below Ground Surface
PID: Photoionization Detector
ppm: Parts Per Million
NR: Not Recorded
NA: Not Applicable
/ 02: indicates field duplicate

Table 1: Sample Collection and Well Information Summary Table
Tutu Wellsfield Site
St. Thomas, U.S. Virgin Island
September 30, 2019 through October 7, 2019

Sample Information		Well Construction Information							Well Purge Information				
Sample Date	START V Sample Number	Well ID Number	Well Type	Flush/ Stick-up (F/S)	Well Diameter (inches)	Steel/PVC (S/P)	Total Well Depth (ft. bgs)	Depth to Top of Screen (ft. bgs)	Pump Intake Depth (ft. bgs)	Depth to Water		Total Volume Purged (gallons)	PID (ppm)
										Before Purging (ft. bgs)	After Purging (ft. bgs)		
Southern Plume | Groundwater Monitoring Wells													
10/2/2019	MW-21D-001-01	MW-21D	Monitoring	S	6	S	96.00	76	77	29.10	33.01	8.25	0.01
10/2/2019	RD-1-001-01	RD-1	Monitoring	F	4	P	109.55	95	100	38.65	48.78	7.75	0.00
10/2/2019	RD-2-001-01	RD-2	Monitoring	S	4	P	72.90	58	65	7.50	10.35	9.25	0.00
10/2/2019	RD-3-001-01	RD-3	Monitoring	S	4	P	33.30	20	26	8.15	13.20	5.70	0.00
10/2/2019	RD-6-001-01	RD-6	Artesian	S	4	P	55.50	30	NA	NA	NA	NA	0.00
10/1/2019	RD-8-001-01	RD-8	Monitoring	F	6	P	75.32	61.1	66	29.60	30.60	7.00	0.00
10/3/2019	RD-14-001-01	RD-14	Monitoring	S	6	P	130.00	80	85	2.40	4.95	3.00	0.00
OU2 Focused | Shallow Groundwater Monitoring Wells													
10/4/2019	OU2-MD-2-001-01	OU2-MD-2	Monitoring	F	6	S	200.00	40	45	25.33	25.76	7.00	0.00
10/3/2019	OU2-MW-1-001-01	OU2-MW-1	Monitoring	F	2	P	86.20	65	71	59.83	59.80	7.50	0.22
10/4/2019	OU2-MW-2-001-01	OU2-MW-2	Monitoring	F	2	P	55.82	44	50	26.70	27.07	6.50	0.00
10/5/2019	OU2-MW-6-001-01	OU2-MW-6	Monitoring	F	6	S	55.00	52	54	28.69	28.71	12.00	0.00
OU2 Focused | Deep Groundwater Monitoring Wells													
10/4/2019	OU2-MW-3-001-01	OU2-MW-3	Monitoring	F	6	NR	149.75	90	100	21.30	22.85	5.50	0.00
10/4/2019	OU2-MW-4-001-01	OU2-MW-4	Monitoring	F	6	S	103.12	90	95	37.46	40.35	4.50	0.76
10/4/2019	OU2-MW-5-001-01	OU2-MW-5	Monitoring	F	6	S	155.30	90	102	92.66	96.50	5.00	0.98
Residential Wells													
10/7/2019	P0001-SMITH-1101007-01	SMITH WELL	Residential	NR	6	NR	60	5	NA	NA	NA	NA	0.00
10/7/2019	P0002-STEELE-191007-01 / 02	STEELE WELL	Residential	NR	NR	NR	115	25	NA	NA	NA	NA	0.00
10/7/2019	P0003-DELEGARD-191007-01	DELEGARD WELL	Residential	NR	NR	NR	70	30	NA	NA	NA	NA	0.00
10/5/2019	P0004-TILLET-101005-01	TILLETT WELL	Residential	F	6	NR	98.4	9	86	22.10	22.18	7	1.98

Notes:
START V: Superfund Technical Assessment & Response Team V
ID: Identification
ft.: Feet
bgs: Below Ground Surface
PID: Photoionization Detector
ppm: Parts Per Million
NR: Not Recorded
NA: Not Applicable
/ 02: indicates field duplicate

Table 2: Validated Monitoring Well Water Analytical Results Summary Table - TCL VOCs
Tutu Wellsfield Site
St. Thomas, U.S. Virgin Island
September 30, 2019 through October 7, 2019

START V Sample Number	EPA MCL[1]	DW-2-001-01	MW-11D-001-01	MW-12D-001-01	MW-12D-001-02	MW-2-001-01	MW-25-001-01	MW-7-001-01	MW-8-001-01	RD-7-001-01	RD-8-001-01	IW-1-001-01
Sample Date		**10/1/2019**	**10/1/2019**	**9/30/2019**	**9/30/2019**	**10/1/2019**	**10/1/2019**	**10/1/2019**	**10/1/2019**	**9/30/2019**	**10/1/2019**	**10/4/2019**
Sample Matrix		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
Sample Source		**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**
TCL VOC												
Dichlorodifluoromethane	NS	0.50 U	**2.4**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.15 J**	100 U
Chloromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Vinyl chloride	2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**14,000**
Bromomethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Chloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Trichlorofluoromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
1,1-Dichloroethene	7	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Acetone	NS	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	35 U	1,000 U
Carbon disulfide	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Methyl Acetate	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Methylene chloride	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**45 J**
trans-1,2-Dichloroethene	100	**0.1 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**240 J**
Methyl tert-butyl Ether	NS	**0.48 J**	**0.68**	**0.34 J**	**0.34 J**	0.50 U	0.50 U	0.50 U	0.50 U	**0.72**	0.50 U	100 U
1,1-Dichloroethane	NS	0.5 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
cis-1,2-Dichloroethene	70	**3.6**	**3.5**	**4.4**	**4.4**	**0.69**	**1.2**	**0.82**	**0.68**	**4.3**	**0.16 J**	**49 J**
2-Butanone	NS	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	1,000 U
Bromochloromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Chloroform	*80	0.50 U	**1.2**	**0.54**	**0.70**	**0.64**	**0.65**	**0.74**	**1.0**	**1.2**	0.5 U	100 U
1,1,1-Trichloroethane	200	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Cyclohexane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Carbon tetrachloride	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Benzene	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
1,2-Dichloroethane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Trichloroethene	5	**2.7**	**3.3**	**2.5**	**2.4**	**0.45 J**	**0.76**	**0.37 J**	**0.51**	**2.8**	**0.14 J**	100 U
Methylcyclohexane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
1,2-Dichloropropane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Bromodichloromethane	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
cis-1,3-Dichloropropene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
4-Methyl-2-pentanone	NS	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	1,000 U
Toluene	1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
trans-1,3-Dichloropropene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
1,1,2-Trichloroethane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Tetrachloroethene	5	**7.2**	**3.7**	**12**	**12**	**2.4**	**2.0**	**5.0**	**3.3**	**10**	0.50 U	100 U
2-Hexanone	NS	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	1,000 U
Dibromochloromethane	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
1,2-Dibromoethane**	0.05	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Chlorobenzene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Ethylbenzene	700	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
o-Xylene	[2] 1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
m,p-Xylene	[2] 1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Styrene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Bromoform	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
Isopropylbenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
1,1,2,2-Tetrachloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
1,3-Dichlorobenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
1,4-Dichlorobenzene	75	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
1,2-Dichlorobenzene	600	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
1,2-Dibromo-3-chloropropane**	0.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
1,2,4-trichlorobenzene	70	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U
1,2,3-Trichlorobenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	100 U

Notes:
START V - Superfund Technical Assistance and Response Team
TCL VOC - Target Compound List Volatile Organic Compound.
U - Not Detected, J - Estimated Result, UJ - Estimated at the Detection Limit.
[1]U.S. Environmental Protection Agency (EPA) Maximum Contaminant Levels (MCLs) contained in the Drinking Water Standards and Health Advisories (DWSHA), revised March 2018.
All data reported in micrograms per liter (µg/L).
*For the total of the four trihalomethanes, the EPA MCL is 80 µg/L per year.
**Not detected at the Repoting Limit (RL).
[2]There is no specified federal MCL for m-, p-, and o-xylene, the MCL for total xylene has been utilized.
Results in bold font are detections.
Result equals or exceeds EPA MCL.

Table 2: Validated Monitoring Well Water Analytical Results Summary Table - TCL VOCs
Tutu Wellsfield Site
St. Thomas, U.S. Virgin Island
September 30, 2019 through October 7, 2019

START V Sample Number	EPA MCL[1]	IW-1S-001-01	IW-2-001-01	IW-2-001-02	MW-10D-001-01	MW-13D-001-01	MW-14-001-01	MW-15-001-01	MW-1D-001-01	MW-21D-001-01	MW-5-001-01	MW-6D-001-01
Sample Date		**10/4/2019**	**10/5/2019**	**10/5/2019**	**10/3/2019**	**10/3/2019**	**10/4/2019**	**10/3/2019**	**10/4/2019**	**10/2/2019**	**10/3/2019**	**10/3/2019**
Sample Matrix		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**
Sample Source		**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**
TCL VOC												
Dichlorodifluoromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	2	0.50 U	**8.9**	**9.1**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**3.0**	0.50 U	0.50 U
Bromomethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.10 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	7	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	NS	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
Carbon disulfide	NS	0.50 U	**2.7 J**	**5.9 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	100	**0.11 J**	**14**	**14**	0.50 U	0.50 U	**0.18 J**	**0.16 J**	**0.93**	**0.15 J**	0.50 U	0.50 U
Methyl tert-butyl Ether	NS	0.50 U	0.50 U	0.50 U	**5.6**	0.50 U	0.50 U	0.50 U	0.50 U	**2.1**	0.50 U	0.50 U
1,1-Dichloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	70	**3.2**	**0.82**	**0.87**	0.50 U	0.50 U	**3.1**	**15**	**41**	**19**	0.50 U	**1.4**
2-Butanone	NS	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
Bromochloromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.53 U	0.67 U	0.50 U	0.50 U	0.50 U	0.55 U
1,1,1-Trichloroethane	200	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**1.3**	0.50 U
Carbon tetrachloride	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**1.8**	0.50 UJ
1,2-Dichloroethane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	5	**4.0**	0.50 U	0.50 U	0.50 U	0.58 U	**1.7**	**3.4**	**7.4**	**3.1**	0.50 U	**0.56**
Methylcyclohexane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	NS	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
Toluene	1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ
trans-1,3-Dichloropropene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	5	**19**	0.50 U	0.50 U	0.50 U	13 U	**4.1**	**35**	**25**	**0.32 J**	0.50 U	13 U
2-Hexanone	NS	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
Dibromochloromethane	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane**	0.05	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	100	0.50 U	**1.9**	**2.0**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	700	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	[2] 1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m,p-Xylene	[2] 1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**2.0**	0.50 U
1,1,2,2-Tetrachloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	NS	0.50 U	0.50 UJ	**0.11 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	75	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	600	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane**	0.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	70	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Notes:
START V - Superfund Technical Assistance and Response Team
TCL VOC - Target Compound List Volatile Organic Compound.
U - Not Detected, J - Estimated Result, UJ - Estimated at the Detection Limit.
[1]U.S. Environmental Protection Agency (EPA) Maximum Contaminant Levels (MCLs) contained in the Drinking Water Standards and Health Advisories (DWSHA), revised March 2018.
All data reported in micrograms per liter (µg/L).
*For the total of the four trihalomethanes, the EPA MCL is 80 µg/L per year.
**Not detected at the Repoting Limit (RL).
[2]There is no specified federal MCL for m-, p-, and o-xylene, the MCL for total xylene has been utilized.
Results in bold font are detections.
Result equals or exceeds EPA MCL.

Table 2: Validated Monitoring Well Water Analytical Results Summary Table - TCL VOCs
Tutu Wellsfield Site
St. Thomas, U.S. Virgin Island
September 30, 2019 through October 7, 2019

START V Sample Number	EPA MCL[1]	MW-6D-001-02	OU2-MD-2-001-01	OU2-MW-1-001-01	OU2-MW-2-001-01	OU2-MW-3-001-01	OU2-MW-4-001-01	OU2-MW-5-001-01	OU2-MW-6-001-01	RD-1-001-01	RD-13-001-01	RD-14-001-01
Sample Date		10/3/2019	10/4/2019	10/3/2019	10/4/2019	10/4/2019	10/4/2019	10/4/2019	10/5/2019	10/2/2019	10/4/2019	10/3/2019
Sample Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Sample Source		Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well	Monitoring Well
TCL VOC												
Dichlorodifluoromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Chloromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Vinyl chloride	2	0.50 U	**110**	0.50 U	**16**	20 U	25 U	**0.37 J**	**0.15 J**	0.50 U	**6.0**	0.50 U
Bromomethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Chloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Trichlorofluoromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
1,1-Dichloroethene	7	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	**0.56**	0.50 U	0.50 U	5.0 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Acetone	NS	5.0 U	5.0 U	5.0 U	5.0 U	200 U	250 U	5.0 U	12 U	5.0 U	50 U	5.0 U
Carbon disulfide	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	**0.43 J**
Methyl Acetate	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Methylene chloride	5	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
trans-1,2-Dichloroethene	100	0.50 U	**5.3**	0.50 U	**1.5**	20 U	25 U	**3.6**	**0.15 J**	0.50 U	**130**	0.50 U
Methyl tert-butyl Ether	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	**0.32 J**
1,1-Dichloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
cis-1,2-Dichloroethene	70	**1.3**	**290**	0.50 U	**64**	**61**	**66**	**30**	**15**	0.50 U	**7.4**	**0.98**
2-Butanone	NS	5.0 U	5.0 U	5.0 U	5.0 U	200 U	250 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U
Bromochloromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Chloroform	*80	0.50 U	0.50 U	0.62 U	0.64 U	20 U	25 U	0.50 U	0.50 U	0.50 U	**5.1**	0.50 U
1,1,1-Trichloroethane	200	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Cyclohexane	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Carbon tetrachloride	5	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Benzene	5	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	**0.13 J**	0.50 U	0.50 U	5.0 U	0.50 U
1,2-Dichloroethane	5	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Trichloroethene	5	0.50 U	**42**	0.50 U	**16**	**27**	**73**	**190**	**1.7**	**0.14 J**	**1.6 J**	**0.22 J**
Methylcyclohexane	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
1,2-Dichloropropane	5	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Bromodichloromethane	*80	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
cis-1,3-Dichloropropene	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
4-Methyl-2-pentanone	NS	5.0 U	5.0 U	5.0 U	5.0 U	200 U	250 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U
Toluene	1,000	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
trans-1,3-Dichloropropene	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
1,1,2-Trichloroethane	5	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Tetrachloroethene	5	13 U	**300**	0.50 U	**63**	**580**	**810**	**85**	**0.23 J**	0.50 U	**2.6 J**	0.50 U
2-Hexanone	NS	5.0 U	5.0 U	5.0 U	5.0 U	200 U	250 U	5.0 U	5.0 U	5.0 U	50 U	5.0 U
Dibromochloromethane	*80	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
1,2-Dibromoethane**	0.05	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Chlorobenzene	100	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Ethylbenzene	700	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
o-Xylene	[2] 1,000	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
m,p-Xylene	[2] 1,000	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Styrene	100	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Bromoform	*80	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
Isopropylbenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
1,1,2,2-Tetrachloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
1,3-Dichlorobenzene	NS	0.50 U	**0.13 J**	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
1,4-Dichlorobenzene	75	0.50 U	**0.17 J**	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
1,2-Dichlorobenzene	600	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
1,2-Dibromo-3-chloropropane**	0.2	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
1,2,4-trichlorobenzene	70	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U
1,2,3-Trichlorobenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	20 U	25 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U

Notes:
START V - Superfund Technical Assistance and Response Team
TCL VOC - Target Compound List Volatile Organic Compound.
U - Not Detected, J - Estimated Result, UJ - Estimated at the Detection Limit.
[1]U.S. Environmental Protection Agency (EPA) Maximum Contaminant Levels (MCLs) contained in the Drinking Water Standards and Health Advisories (DWSHA), revised March 2018.
All data reported in micrograms per liter (µg/L).
*For the total of the four trihalomethanes, the EPA MCL is 80 µg/L per year.
**Not detected at the Repoting Limit (RL).
[2]There is no specified federal MCL for m-, p-, and o-xylene, the MCL for total xylene has been utilized.
Results in bold font are detections.
Result equals or exceeds EPA MCL.

Table 2: Validated Monitoring Well Water Analytical Results Summary Table - TCL VOCs
Tutu Wellsfield Site
St. Thomas, U.S. Virgin Island
September 30, 2019 through October 7, 2019

START V Sample Number	EPA MCL[1]	RD-2-001-01	RD-3-001-01	RD-4-001-01	RD-5-001-01	RD-6-001-01	RD-9-001-01	RB-1-190930-01	RB-1-191001-01	RB-2-191001-01	RB-1-191002-01	RB-2-191002-01
Sample Date		**10/2/2019**	**10/2/2019**	**10/2/2019**	**10/3/2019**	**10/2/2019**	**10/5/2019**	**9/30/2019**	**10/1/2019**	**10/1/2019**	**10/2/2019**	**10/2/2019**
Sample Matrix		**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Groundwater**	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**
Sample Source		**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Monitoring Well**	**Artesian Well**	**Monitoring Well**	**Deionized Water**	**Deionized Water**	**Deionized Water**	**Deionized Water**	**Deionized Water**
TCL VOC												
Dichlorodifluoromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	**1.3**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.14 J**	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**24**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.52**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	7	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**30**	**8.2**	**33**	**4.6 J**	**5.7**
Carbon disulfide	NS	0.50 U	0.50 U	**0.13 J**	0.50 U	0.50 U	0.50 U	0.50 U	**0.25 J**	0.50 U	**0.33 J**	0.50 U
Methyl Acetate	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	100	0.50 U	0.50 U	0.50 U	**0.18 J**	0.50 U	**17**	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U
Methyl tert-butyl Ether	NS	0.50 U	**0.54**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U
cis-1,2-Dichloroethene	70	0.50 U	**1.5**	**0.40 J**	**8.3**	**2.7**	**6.5**	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U
2-Butanone	NS	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
Bromochloromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	200	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	5	0.50 U	0.50 U	0.50 U	**3.3**	**2.0**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	NS	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
Toluene	1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.67**	**0.51**	**0.51**	**0.53**	**0.51**
trans-1,3-Dichloropropene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	5	0.50 U	0.50 U	0.50 U	**44**	**0.99**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	NS	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
Dibromochloromethane	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane**	0.05	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.98**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	700	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	[2] 1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.14 J**	0.50 U	**0.12 J**	0.50 U	0.50 U
m,p-Xylene	[2] 1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.18 J**	**0.13 J**	**0.15 J**	**0.17 J**	0.50 U
Styrene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.18 J**	0.50 U	**0.17 J**	0.50 U
Bromoform	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	75	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	600	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane**	0.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	70	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Notes:
START V - Superfund Technical Assistance and Response Team
TCL VOC - Target Compound List Volatile Organic Compound.
U - Not Detected, J - Estimated Result, UJ - Estimated at the Detection Limit.
[1]U.S. Environmental Protection Agency (EPA) Maximum Contaminant Levels (MCLs) contained in the Drinking Water Standards and Health Advisories (DWSHA), revised March 2018.
All data reported in micrograms per liter (µg/L).
*For the total of the four trihalomethanes, the EPA MCL is 80 µg/L per year.
**Not detected at the Repoting Limit (RL).
[2]There is no specified federal MCL for m-, p-, and o-xylene, the MCL for total xylene has been utilized.
Results in bold font are detections.
Result equals or exceeds EPA MCL.

Table 2: Validated Monitoring Well Water Analytical Results Summary Table - TCL VOCs
Tutu Wellsfield Site
St. Thomas, U.S. Virgin Island
September 30, 2019 through October 7, 2019

START V Sample Number	EPA MCL[1]	RB-1-191003-01	RB-2-191003-01	RB-1-191004-01	RB-2-191004-01	RB-1-191005-01	RB-2-191005-01	TB-191002-01	TB-191007-01	TB-2-191007-01
Sample Date		10/3/2019	10/3/2019	10/4/2019	10/4/2019	10/5/2019	10/5/2019	10/2/2019	10/7/2019	10/7/2019
Sample Matrix		Rinsate Blank	Rinsate Blank	Rinsate Blank	Rinsate Blank	Rinsate Blank	Rinsate Blank	Trip Blank	Trip Blank	Trip Blank
Sample Source		Deionized Water	Deionized Water	Deionized Water	Deionized Water	Deionized Water	Deionized Water	Deionized Water	Deionized Water	Deionized Water
TCL VOC										
Dichlorodifluoromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.17 J**	**0.40 J**	**0.27 J**
Vinyl chloride	2	0.50 U	0.50 U	**2.1**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	7	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	NS	**7.8**	**8.2**	**3.8 J**	**24**	**4.0 J**	**7.3**	**35**	**7.0**	**6.2**
Carbon disulfide	NS	0.50 U	**0.21 J**	**8.4**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	5	0.50 U	**0.14 J**	0.50 U	**0.23 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl Ether	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	70	0.50 U	**0.29 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	NS	5.0 U	5.0 U	5.0 U	**2.5 J**	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.36 J**	**0.46 J**
1,1,1-Trichloroethane	200	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.15 J**	0.50 U	0.50 U
1,2-Dichloroethane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	5	0.50 U	**0.38 J**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	NS	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
Toluene	1,000	**0.48 J**	**0.48 J**	**0.58**	**0.42 J**	**0.43 J**	**0.49 J**	**0.88**	**0.44 J**	**0.45 J**
trans-1,3-Dichloropropene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	5	0.50 U	**13**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	NS	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
Dibromochloromethane	*80	0.50 U	0.50 U	0.50 U	**0.88**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane**	0.05	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	700	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	[2] 1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.19 J**	0.50 U	0.50 U
m,p-Xylene	[2] 1,000	**0.16 J**	0.50 U	**0.15 J**	0.50 U	**0.14 J**	**0.13 J**	**0.26 J**	**0.17 J**	**0.15 J**
Styrene	100	**0.17 J**	0.50 U	**0.14 J**	0.50 U	**0.17 J**	**0.13 J**	**0.16 J**	**0.18 J**	**0.18 J**
Bromoform	*80	0.50 U	0.50 U	0.50 U	**8.0**	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	75	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	600	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane**	0.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	70	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Notes:
START V - Superfund Technical Assistance and Response Team
TCL VOC - Target Compound List Volatile Organic Compound.
U - Not Detected, J - Estimated Result, UJ - Estimated at the Detection Limit.
[1]U.S. Environmental Protection Agency (EPA) Maximum Contaminant Levels (MCLs) contained in the Drinking Water Standards and Health Advisories (DWSHA), revised March 2018.
All data reported in micrograms per liter (µg/L).
*For the total of the four trihalomethanes, the EPA MCL is 80 µg/L per year.
**Not detected at the Repoting Limit (RL).
[2]There is no specified federal MCL for m-, p-, and o-xylene, the MCL for total xylene has been utilized.
Results in bold font are detections.
Result equals or exceeds EPA MCL.

Table 3: Validated Residential Well Water Analytical Results Summary Table - TCL VOCs
Tutu Wellsfield Site
St. Thomas, U.S. Virgin Island
October 2019

START V Sample Number	EPA MCL[1]	P0001-SMITH-1101007-01	P0002-STEELE-191007-01-01	P0002-STEELE-191007-02	P0003-DELEGARD-191007-01	P0004-TILLET-101005-01	TB-3-191007-01
Sample Date		**10/7/2019**	**10/7/2019**	**10/7/2019**	**10/7/2019**	**10/5/2019**	**10/7/2019**
Sample Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Trip Blank**
Sample Source		**Residential Well**	**Residential Well**	**Residential Well**	**Residential Well**	**Residential Well**	**Deionized Water**
TCL VOC							
Dichlorodifluoromethane	NS	**1.0**	**0.55**	**0.65**	**1.6**	0.50 U	0.50 U
Chloromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.12 J**
Vinyl chloride	2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	7	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	**5.3**
Carbon disulfide	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	100	0.50 U	0.50 U	**0.080 J**	0.50 U	0.50 U	0.50 U
Methyl tert-butyl Ether	NS	**0.19 J**	**0.27 J**	**0.31 J**	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	70	**5.0**	**3.4**	**3.8**	**1.0**	**5.3**	0.50 U
2-Butanone	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	*80	**0.72**	0.50 U	**0.66**	**0.77**	0.50 U	0.50 U
1,1,1-Trichloroethane	200	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	5	**3.3**	**3.0**	**3.4**	**0.87**	**2.3**	0.50 U
Methylcyclohexane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	NS	0.50 U	0.50 U	0.50 U	0.5 U	0.50 U	0.50 U
4-Methyl-2-pentanone	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.45 J**
trans-1,3-Dichloropropene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	5	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	5	**1.7**	**4.1**	**4.8**	**0.36 J**	**20**	0.50 U
2-Hexanone	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane**	0.05	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	700	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.10 J**
o-Xylene	[2] 1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.10 J**
m,p-Xylene	[2] 1,000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.16 J**
Styrene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	**0.19 J**
Bromoform	*80	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	75	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	600	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane**	0.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	70	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	NS	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

Notes:
START V - Superfund Technical Assistance and Response Team
TCL VOC - Target Compound List Volatile Organic Compound.
U - Not Detected, J - Estimated Result, UJ - Estimated at the Detection Limit.
[1]U.S. Environmental Protection Agency (EPA) Maximum Contaminant Levels (MCLs) contained in the Drinking Water Standards and Health Advisories (DWSHA), revised March 2018.
All data reported in micrograms per liter (µg/L).
*For the total of the four trihalomethanes, the EPA MCL is 80 µg/L per year.
**Not detected at the Repoting Limit (RL).
[2]There is no specified federal MCL for m-, p-, and o-xylene, the MCL for total xylene has been utilized.
Results in bold font are detections.
Result equals or exceeds EPA MCL.

Table 4: Historical Comparison of Groundwater Analytical Data
Prior to and After Hurricane Maria
Tutu Wellfield Site, St. Thomas, U.S. Virgin Islands

Area	Well ID	Total CVOC Concentration (µg/L)						Concentration (µg/L)										Concentration (µg/L)									
		Pre-Hurricane Maria			Post-Hurricane Maria			January 2018 - CVOC Breakdown										October 2019 - CVOC Breakdown									
		Baseline March 2004	April 2016	January 2017	January 2018	June 2019	October 2019	PCE		TCE		cis-1,2-DCE		trans-1,2-DCE		VC		PCE		TCE		cis-1,2-DCE		trans-1,2-DCE		VC	
Curriculum Center/ Facility #1	MW-1D	701	160	113.9	88.94	NS	74.33	28	D	7.1		53	D	0.84		0.5	U	25		7.4		41		0.93		0.5	U
	MW-13D	0	4	4.91	4.1	NS	0	4.1		0.4	J	0.5	U	0.5	U	0.5	U	13	U	0.58	U	0.5	U	0.5	U	0.5	U
	MW-14	11	6	9.6	39.1	NS	8.9	20	D	6.1		13		0.48	J	0.5	U	4.1		1.7		3.1		0.18	J	0.5	U
	MW-15	55	40	50	85.6	NS	53.4	46	D	4.6	D	35	D	2.5	U	2.5	U	35		3.4		15		0.16	J	0.5	U
	MW-2	11	1.1	0.43	1.88	NS	3.09	1.1		0.5	U	0.78		0.5	U	0.5	U	2.4		0.45	J	0.69		0.5	U	0.5	U
	MW-6D	31	3	3.88	13.32	NS	1.96	6.7		0.72		5.9		0.5	U	0.5	U	13	U	0.56		1.4		0.5	U	0.5	U
	MW-7	1	5	2.68	0.31	NS	5.82	0.31	J	0.5	U	0.5	U	0.5	U	0.5	U	5		0.37	J	0.82		0.5	U	0.5	U
	RD-13	780	511	340	368	NS	147.6	1	U	1	U	160	D	150	D	58	D	2.6	J	1.6	J	7.4		130		6	
	RD-9	152020	601	237	2314	NS	47.5	5	U	5	U	630	D	84	D	1600	D	0.5	U	0.5	U	6.5		17		24	
	RD-5	204	37	21.9	27.5	NS	55.6	22	D	2.1		3.4		0.5	U	0.5	U	44		3.3		8.3		0.18	J	0.5	U
	TT-6	165	30	16.7	23.1	NS	NA	15		1.3		6.8		0.5	U	0.5	U	NA		NA		NA		NA		NA	
	Tillett	100	22	20.9	8.69	NS	27.6	6.4		0.49	J	1.8		0.5	U	0.5	U	20		2.3		5.3		0.5	U	0.5	U
	MW-10D	48	1.8	1.2	0.25	NS	0	0.5	U	0.5	U	0.25	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	MW-25	26	3	2.42	3.6	NS	3.96	2		0.41	J	1.2		0.5	U	0.5	U	2		0.76		1.2		0.5	U	0.5	U
	IW-1						14,289											100	U	100	U	49	J	240	J	14,000	
	MW-8	44	4	2.87	2.14	NS	4.49	1.6		0.25	J	0.29	J	0.5	U	0.5	U	3.3		0.51		0.68		0.5	U	0.5	U
	MW-5						0											0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	IW-1S						26.2											19		4		3.2		0.11	J	0.5	U
	IW-2						23.97											0.5	U	0.5	U	0.87		14		9.1	
	OU2-MD-2						747.3											300		42		290		53		110	
	OU2-MW-1						0											0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	OU2-MW-2						160.5											63		16		64		1.5		16	
	OU2-MW-3						668											580		27		61		20	U	20	U
	OU2-MW-4						949											810		73		66		25	U	25	U
	OU2-MW-5						308.6											85		190		30		3.6		0.37	J
	OU2-MW-6						16.7											0.23	J	1.7		15		0.15	J	0.15	J
Facility #2	DW-2	16	5	2.97	5.57	NS	13.5	3.1		0.97		1.5		0.5	U	0.5	U	7.2		2.7		3.6		0.1	J	0.5	U
	Eglin-3	33	-	-	-	NS	NS	-		-		-		-		-		-		-		-		-		-	
	MW-11D	0	5	4.5	17.31	NS	10.5	5.6		4.8		6.8		0.11	J	0.5	U	3.7		3.3		3.5		0.5	U	0.5	U
	MW-12D	71	14	6.4	7.12	NS	18.9	4.6		0.72		1.8		0.5	U	0.5	U	12		2.5		4.4		0.5	U	0.5	U
	RD-7	74	3	3.88	5.98	NS	17.1	3.7		0.88		1.4		0.5	U	0.5	U	10		2.8		4.3		0.5	U	0.5	U
Southern Plume	Delegard	12	2	1.33	-	1.52	1.87	-		-		-		-		-		0.36	J	0.87		1		0.5	U	0.5	U
	Laplace	24	4	5.4	-	NS	NS	-		-		-		-		-		-		-		-		-		-	
	Mathias	-	-	-	-	NS	NS	-		-		-		-		-		-		-		-		-		-	
	MW-21D	72	20	13.21	29.45	NS	25.1	1.5		3.2		22	D	0.15	J	2.6		0.32	J	3.1		19		0.15	J	3	
	RD-1	6	0.3	0.68	0.71	NS	0	0.5	U	0.5	U	0.71		0.5	U	0.5	U	0.5	U	0.14	J	0.5	U	0.5	U	0.5	U
	RD-2	1	0.7	0	0	NS	0	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
	RD-3	4	0	0	1.6	NS	1.5	0.5	U	0.5	U	1.6		0.5	U	0.5	U	0.5	U	0.5	U	1.5		0.5	U	0.5	U
	RD-6	8	7	7.9	5.8	NS	5.69	1.3		2.1		2.4		0.5	U	0.5	U	0.99		2		2.7		0.5	U	0.5	U
	RD-8	14	0.6	0	0.66	NS	0	0.5	U	0.2	J	0.46	J	0.5	U	0.5	U	0.5	U	0.14	J	0.16	J	0.5	U	0.5	U
	RD-14						0.98											0.5	U	0.22	J	0.98		0.5	U	6	
	RD-4						0											0.5	U	0.5	U	0.4	J	0.5	U	0.5	U
	Smith	11	13	8.2	11.6	21.9	10	2.7		4.4		4.5		0.5	U	0.5	U	1.7		3.3		5		0.19	J	0.5	J
	Steele	169	-	-	-	7.9	12	-		-		-		-		-		4.8		3.4		3.8		0.08	J	0.5	U

Notes:

1. Non-detects were assumed to have a value of 0 µg/L.
2. The Smith and Steele VOC samples were most likely mislabeled in April 2007. These wells will continue to be monitored to verify contaminant trends.
3. Samples were not collected from the Eglin-3 well in April 2013 because the supply well pump was broken.
4. The Steele well has not been sampled since April 2015 due to an inoperable well pump.
5. The Steele and Eglin-3 wells have been removed from the list of wells to be sampled annually until well pumps are repaired.
6. Samples were not collected at Delegard or Laplace during the 2018 sampling event. There was no power available and both well pumps were damaged in hurricanes Irma and Maria.
7. Total CVOCs do not include values <1.0 with a J qualifier.
8. NA - Not Applicable - Well has been destroyed.
9. Hurricane Maria made landfall on Puerto Rico September 20, 2017.

Acronyms:

CVOCs - chlorinated volatile organic compounds
DCE - dichloroethene
ID - identification
NS - not sampled
TCE- trichloroethene
PCE- tetrachloroethene
VC- vinyl chloride
µg/L - microgram per liter

ATTACHMENT C

Photographic Documentation Log

Photographic Documentation Log
Tutu Wellsfield Site
St. Thomas, U.S. Virgin Islands
September 30, 2019 through October 11, 2019



Photograph 1: On September 30, 2019 through October 7, 2019, the U.S. Environmental Protection Agency, Region II (EPA) and Weston Solutions, Inc., Superfund Technical Assessment Team V (START V) conducted a monitoring and residential well sampling event at the Tutu Wellfield Site (the Site) in St. Thomas, U.S. Virgin Islands.



Photograph 2: View of EPA On-Scene Coordinators (OSCs) providing field support for the sampling of SMITH residential well from which sample P0001-SMITH-1101007-01 was collected.



Photograph 3: View of Grundfos pump setup utilized for low-flow sampling of 35 monitoring wells and one residential well (TILLET). Each well was purged at steady flow rate until water quality indicator field parameters, including pH, specific electric conductance (SEC), oxidation-reduction potential (ORP), turbidity, and dissolved oxygen (DO), were stabilized.



Photograph 4: View of EPA OSC purging DELEGARD residential well prior to collecting sample P0003-DELGARD-191007-01. Water samples were collected directly from taps and faucets associated with three residential wells (SMITH, STEELE, and DELEGARD).



Photograph 5: START V personnel assembling sampling pump setup prior to purging monitoring well MW-12D.



Photograph 6: START V personnel lowering Grundfos pump into monitoring well MW-12D.



Photograph 7: START V personnel performing equipment decontamination after collecting sample RD-1-001-01 from monitoring well RD-1.



Photograph 8: START V personnel performing equipment decontamination after collecting sample MW-21D-001-01 from monitoring well MW-21D.



Photograph 9: START V personnel collecting sample MW-10D-001-01 from monitoring well MW-10D.



Photograph 10: START V personnel preparing pump setup at monitoring well OU2-MW1.



Photograph 11: EPA OSCs providing field support to START V personnel during pump setup for the sampling monitoring well MW-13D.



Photograph 12: START V personnel preparing pump setup at monitoring well MW-1D.

ATTACHMENT D

Well Purge Sheets

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	MW-8	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**H.Rodriguez**	12:30	0.50	12.89	8.00	1.06	*Clear	5.61	30.64	113	560	
Site Name:	Tutu Well Field	12:35	1.50	13.61	7.63	1.03		3.76	30.21	115	560	
Address:		12:40	2.00	13.80	7.66	1.02		4.80	30.35	113	560	
City, State:	STT, USVI	12:45	2.50	13.95	7.64	1.04		4.22	30.47	111	560	
Project No.:	40200.011.032.1052	12:50	3.00	13.98	7.70	1.07		4.80	30.19	107	560	
Date:	Oct 1, 2019	12:55	3.50	14.00	7.64	1.12		1.41	30.94	100	560	
Weather:	Sunny, 84˚ F	13:00	4.00	13.99	7.64	0.73		1.14	31.20	85	560	
Well Permit #:		13:05	4.50	13.99	7.71	1.16		0.46	31.24	67	560	
Well Diameter (inches):	6	13:10	5.00	13.98	7.65	1.16		0.36	31.27	59	560	
PID/FID Reading (ppm):	0	13:15	5.50	13.98	7.66	1.17		0.28	31.25	49	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	13.00											
Vol of Water in Well (gal):												
Purge Start Time:	12:30											
Purge Stop Time:	13:20											
Pump Intake Depth (ft):	16.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	6.00											
DTW After Purge (ft):	13.05											
Sample Method:												
Sample Time:												
Analyses:	TCL VOC											
Sample #:	MW-8-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201
Edison, New Jersey

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	DW-2	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**H. Rodriguez**	10:02	1.50	10.25	7.43	1.38	*Clear	2.50	28.72	130	560	
Site Name:	Tutu Well Field	10:07	2.25	10.25	7.45	1.39		1.35	28.79	116	560	
Address:		10:11	3.00	10.25	7.50	1.39		0.94	28.82	109	560	
City, State:	STT, USVI	10:16	3.75	10.10	7.58	1.40		0.51	28.84	88	560	
Project No.:	40200.011.032.1052	10:21	4.50	10.20	7.63	1.40		0.34	28.82	71	560	
Date:	Oct 1, 2019	10:26	5.25	10.20	7.75	1.40		0.22	28.89	54	560	
Weather:	Sunny, 82˚ F	10:31	6.00	10.20	7.65	1.40		0.12	28.92	46	560	
Well Permit #:		10:36	6.75	10.20	7.66	1.40		0.06	28.88	39	560	
Well Diameter (inches):	6	10:41	7.50	10.20	7.66	1.40		0.03	28.91	36	560	
PID/FID Reading (ppm):	0.01	10:46	9.00	10.20	7.61	1.40		0.00	28.96	34	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	9.97											
Vol of Water in Well (gal):												
Purge Start Time:	10:02											
Purge Stop Time:	11:30											
Pump Intake Depth (ft):	61.0											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	9.25											
DTW After Purge (ft):	10.00											
Sample Method:												
Sample Time:												
Analyses:	TCL VOC											
Sample #:												
Field Duplicate Sample #:	DW-2-001-01											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear



Weston Solutions, Inc.
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Edison, New Jersey

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	MW-2	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G.Rodriguez**	16:46	1.00	9.60	7.47	1.39	*Clear	1.50	29.47	116	560	
Site Name:	Tutu Well Field	16:51	2.70	9.62	7.56	1.39		0.81	29.29	105	560	
Address:		16:56	3.50	9.65	7.64	1.39		0.44	29.62	88	560	
City, State:	STT, USVI	17:01	4.00	9.65	7.78	1.39		0.29	29.64	74	560	
Project No.:	40200.011.032.1052	17:06	5.00	9.65	7.80	1.39		0.20	29.42	66	560	
Date:	Oct 1, 2019	17:11	6.00	10.33	7.70	1.39		0.12	29.24	64	560	
Weather:	Sunny, 85˚ F	17:16	7.00	10.33	7.73	1.39		0.07	29.42	56	560	
Well Permit #:		17:21	7.50	10.31	7.84	1.39		0.11	29.47	46	560	
Well Diameter (inches):	4	17:26	8.00	10.33	7.83	1.39		0.01	29.31	42	560	
PID/FID Reading (ppm):	0.07	17:31	9.25	10.35	7.66	1.39		0.00	29.06	49	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	10.22											
Vol of Water in Well (gal):												
Purge Start Time:	16:46											
Purge Stop Time:	17:38											
Pump Intake Depth (ft):	15.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	9.25											
DTW After Purge (ft):	10.24											
Sample Method:												
Sample Time:												
Analyses:	TCL VOC											
Sample #:	MW-2-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

RINSE BLANK SAMPLE #: RB-2-191001-01

Weston Solutions, Inc.
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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	RD-2	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G. Rodriguez**	9:10	2.50	9.98	7.64	12.90	*Clear	3.78	26.64	-119	560	
Site Name:	Tutu Well Field	9:15	3.25	10.20	7.66	12.90		3.33	26.71	-121	560	
Address:		9:20	4.00	10.58	7.63	12.20		2.17	26.74	-124	560	
City, State:	STT, USVI	9:25	4.75	10.95	7.61	12.20		1.68	26.80	-125	560	
Project No.:	40200.011.032.1052	9:30	5.50	11.38	7.56	12.20		1.24	26.90	-124	560	
Date:	Oct 2, 2019	9:35	6.25	11.72	7.54	12.20		0.96	26.84	-124	560	
Weather:	Partly Cloudy, 83˚ F	9:40	7.00	11.72	7.52	12.20		0.86	26.88	-123	560	
Well Permit #:		9:45	7.75	11.95	7.50	12.20		0.66	26.87	-120	560	
Well Diameter (inches):	4	9:50	8.50	12.11	7.49	12.20		0.53	26.96	-119	560	
PID/FID Reading (ppm):	0	9:55	9.25	12.28	7.49	12.10		0.53	26.87	-120	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	7.50											
Vol of Water in Well (gal):												
Purge Start Time:	9:10											
Purge Stop Time:	10:05											
Pump Intake Depth (ft):	65.0											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	9.25											
DTW After Purge (ft):	10.35											
Sample Method:												
Sample Time:	10:00											
Analyses:	TCL VOC											
Sample #:	RD-2-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

Weston Solutions, Inc.
1090 King Georges Post Road
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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	RD-3	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**H.Rodriguez**	10:35	1.00	9.72	7.87	3.80	*Clear	6.94	27.49	-117	560	
Site Name:	Tutu Well Field	10:40	2.50	10.90	7.95	2.90		3.49	27.68	-151	560	
Address:		10:45	3.00	11.00	8.01	2.88		2.25	28.09	-165	560	
City, State:	STT, USVI	10:50	3.50	12.10	8.13	2.68		2.47	28.22	-195	560	
Project No.:	40200.011.032.1052	10:55	3.50	12.50	8.19	2.65		2.69	28.40	-211	560	
Date:	Oct 2, 2019	11:00	4.00	13.10	8.30	2.41		3.56	28.19	-234	560	
Weather:	Partly Cloudy, 86˚ F	11:05	4.50	13.85	8.40	2.56		3.40	28.36	-248	560	
Well Permit #:		11:10	5.00	13.98	8.28	2.98		2.76	28.72	-245	560	
Well Diameter (inches):	4	11:15	5.50	14.00	8.19	3.32		2.38	28.81	-243	560	
PID/FID Reading (ppm):	0	11:20	5.70	14.02	8.11	3.55		2.23	28.99	-242	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	8.15											
Vol of Water in Well (gal):												
Purge Start Time:	10:30											
Purge Stop Time:	11:26											
Pump Intake Depth (ft):	26.0											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	6.00											
DTW After Purge (ft):	13.20											
Sample Method:												
Sample Time:	11:23											
Analyses:	TCL VOC											
Sample #:	RD-3-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

Weston Solutions, Inc.
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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	RD-1	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G.Rodriguez**	13:39	1.00	40.02	9.19	0.630	*Clear	8.25	27.90	3	560	
Site Name:	Tutu Well Field	13:44	2.50	41.80	9.27	0.619		2.30	28.23	-8	560	
Address:		13:49	3.00	42.35	9.32	0.626		1.09	28.40	-20	560	
City, State:	STT, USVI	13:54	3.50	43.36	9.28	0.747		0.59	27.98	-28	560	
Project No.:	40200.011.032.1052	13:59	4.25	44.20	9.48	0.633		0.28	28.50	-48	560	
Date:	Oct 2,2019	14:04	5.00	45.30	9.41	0.685		0.20	28.67	-50	560	
Weather:	Sunny, 95° F	14:09	5.50	43.15	9.07	0.770		0.16	28.31	-32	560	
Well Permit #:		14:14	6.20	47.84	9.11	0.743		0.01	29.31	-42	560	
Well Diameter (inches):	4	14:19	7.00	48.65	9.25	0.675		0.00	29.51	-52	560	
PID/FID Reading (ppm):	0	14:24	7.75	49.60	8.81	0.776		0.00	29.43	-33	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	38.65											
Vol of Water in Well (gal):												
Purge Start Time:	13:30											
Purge Stop Time:	14:30											
Pump Intake Depth (ft):	95.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	7.75											
DTW After Purge (ft):	48.78											
Sample Method:												
Sample Time:	14:25											
Analyses:	TCL VOC											
Sample #:	RD-1-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

Weston Solutions, Inc.
1090 King Georges Post Road
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Edison, New Jersey

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	MW-21D	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**H. Rodriguez**	16:22	0.00	28.90	8.30	3.46	*Clear	6.08	27.56	66	560	
Site Name:	Tutu Well Field	16:27	2.50	29.90	7.85	3.52		2.06	27.81	-37	560	
Address:		16:32	3.00	29.80	7.83	3.54		2.00	27.89	-60	560	
City, State:	STT, USVI	16:37	3.75	29.80	7.83	3.55		1.72	27.78	-71	560	
Project No.:	40200.011.032.1052	16:42	4.50	31.30	7.80	3.55		1.55	27.89	-75	560	
Date:	Oct 2, 2019	16:47	5.25	31.60	7.66	3.55		1.22	27.95	-69	560	
Weather:	Sunny , 87 ˚ F	16:52	6.00	32.10	7.77	3.54		0.95	27.92	-76	560	
Well Permit #:		16:57	6.75	32.33	7.75	3.54		0.80	27.77	-75	560	
Well Diameter (inches):	6	17:02	7.50	32.45	7.77	3.53		0.77	27.75	-77	560	
PID/FID Reading (ppm):	0.010	17:07	8.25	32.65	7.78	3.50		0.78	27.67	-79	560	
Product Thickness (ft):												
Depth to Bottom (ft):	96.00											
Depth to Water (ft):	29.10											
Vol of Water in Well (gal):												
Purge Start Time:	16:22											
Purge Stop Time:	17:09											
Pump Intake Depth (ft):	77.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):	33.01											
Sample Method:												
Sample Time:	17::08											
Analyses:	TCL VOC											
Sample #:	MW-21D-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

According to data TD=41.55 ft & TOS=76 ft. Measure depth=96 ft with stick up

*Turbidity meter not working - water is clear

RINSE BLANK SAMPLE #: RB-2-191002-01

WESTON SOLUTIONS
The Trusted Integrator for Sustainable Solutions

Weston Solutions, Inc.
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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	MW-10D	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G. Rodriguez**	9:05	1.00	16.31	7.42	1.23	*Clear	6.22	30.29	ND	560	
Site Name:	Tutu Well Field	9:10	2.00	16.40	7.45	1.23		3.00	30.39	ND	560	
Address:		9:15	3.00	16.70	7.51	1.27		1.14	30.48	12	560	
City, State:	STT, USVI	9:20	3.50	17.00	7.61	1.21		0.66	30.53	-19	560	
Project No.:	40200.011.032.1052	9:25	4.00	17.20	7.74	1.21		0.46	30.71	-39	560	
Date:	Oct 3, 2019	9:30	4.50	17.32	7.87	1.21		0.41	30.83	-51	560	
Weather:	Partly Cloudy, 84° F	9:35	4.75	17.44	7.93	1.20		0.37	31.03	-59	560	
Well Permit #:		9:40	5.50	17.65	7.91	1.21		0.31	30.93	-61	560	
Well Diameter (inches):	6	9:45	6.25	17.92	7.93	1.19		0.34	30.88	-66	560	
PID/FID Reading (ppm):	0.230	9:50	7.00	17.95	7.94	1.19		0.34	30.98	-68	560	
Product Thickness (ft):												
Depth to Bottom (ft):	56.00											
Depth to Water (ft):	15.76											
Vol of Water in Well (gal):												
Purge Start Time:	9:00											
Purge Stop Time:	9:53											
Pump Intake Depth (ft):	52.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	7.25											
DTW After Purge (ft):	18.00											
Sample Method:												
Sample Time:	9:53											
Analyses:	TCL VOC											
Sample #:	MW-10D-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	MW-6D	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G. Rodriguez**	11:00	0.25	6.65	7.74	0.894	*Clear	4.85	29.47	107	560	
Site Name:	Tutu Well Field	11:05	0.75	6.60	7.57	0.911		3.39	29.58	111	560	
Address:		11:10	1.50	6.70	7.39	0.950		1.28	29.81	103	560	
City, State:	STT, USVI	11:15	3.00	6.62	7.45	0.977		0.70	29.72	88	560	
Project No.:	40200.011.032.1052	11:20	3.50	6.84	7.53	1.03		0.44	29.90	71	560	
Date:	Oct 3, 2019	11:25	4.00	6.90	7.69	1.10		0.38	29.83	50	560	
Weather:	Sunny, 86˚ F	11:30	5.25	6.80	7.83	1.13		0.32	29.82	36	560	
Well Permit #:		11:35	6.00	6.88	7.81	1.35		0.59	29.85	32	560	
Well Diameter (inches):	6	11:40	6.75	6.95	7.83	1.36		0.58	29.74	29	560	
PID/FID Reading (ppm):	0.020	11:45	7.50	6.85	7.85	1.36		0.56	29.72	26	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	6.60											
Vol of Water in Well (gal):												
Purge Start Time:	11:00											
Purge Stop Time:	11:55											
Pump Intake Depth (ft):	40.10											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	8.00											
DTW After Purge (ft):	6.60											
Sample Method:												
Sample Time:	11:55											
Analyses:	TCL VOC											
Sample #:	MW-6D-001-01											
Field Duplicate Sample #:	MW-6D-001-02											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	OU2-MW-1	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G. Rodriguez**	14:58	0.50	60.00	7.43	1.70	*Clear	8.00	29.90	126	560	
Site Name:	Tutu Well Field	15:03	2.00	59.88	7.40	1.72		7.51	30.46	129	560	
Address:		15:08	3.00	59.90	7.50	1.71		7.50	31.24	120	560	
City, State:	STT, USVI	15:13	3.50	59.90	7.65	1.71		7.35	31.47	114	560	
Project No.:	40200.011.032.1052	15:18	4.00	59.86	7.66	1.71		7.28	31.49	112	560	
Date:	Oct 3, 2019	15:23	4.50	59.86	7.77	1.71		7.39	31.53	100	560	
Weather:	Sunny, 86˚ F	15:28	4.75	59.86	7.81	1.71		7.30	31.61	94	560	
Well Permit #:		15:33	6.00	59.88	7.54	1.71		7.28	31.62	103	560	
Well Diameter (inches):	2	15:38	7.00	59.95	7.54	1.71		7.40	31.28	103	560	
PID/FID Reading (ppm):	0.220	15:43	7.50	59.92	7.56	1.70		7.24	31.19	101	560	
Product Thickness (ft):												
Depth to Bottom (ft):	84.00											
Depth to Water (ft):	59.83											
Vol of Water in Well (gal):												
Purge Start Time:	14:55											
Purge Stop Time:	15:50											
Pump Intake Depth (ft):	71.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):	59.80											
Sample Method:												
Sample Time:	15:50											
Analyses:	TCL VOC											
Sample #:	OU2-MW-1-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

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WELL PURGE SHEET

Well ID #:	MW-13D	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G. Rodriguez**	16:50	1.00	58.30	9.57	1.40	*Clear	3.40	29.06	58	560	
Site Name:	Tutu Well Field	16:55	3.00	58.33	9.91	1.38		0.99	29.33	35	560	
Address:		17:00	3.50	58.50	10.03	1.37		0.56	29.33	20	560	
City, State:	STT, USVI	17:05	4.00	58.55	10.08	1.37		0.39	29.32	9	560	
Project No.:	40200.011.032.1052	17:10	5.00	58.55	10.09	1.36		0.37	29.30	-2	560	
Date:	Oct 3, 2019	17:15	6.00	58.55	10.05	1.35		0.34	29.29	-9	560	
Weather:	Sunny, 85°F	17:20	6.50	58.55	10.04	1.34		0.34	29.26	-11	560	
Well Permit #:												
Well Diameter (inches):	6											
PID/FID Reading (ppm):	0.010											
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	60.52											
Vol of Water in Well (gal):												
Purge Start Time:	16:46											
Purge Stop Time:	17:25											
Pump Intake Depth (ft):	101.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):	64.10											
Sample Method:												
Sample Time:	17:25											
Analyses:	TCL VOC											
Sample #:	MW-13D-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

RINSE BLANK SAMPLE #: RB-2-191003-01

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WELL PURGE SHEET

Well ID #:	OU2-MW-5	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G.Rodriguez**	8:50	1.00	92.60	8.53	3.54	*Clear	1.93	28.87	65	560	
Site Name:	Tutu Well Field	8:55	1.50	93.31	8.75	3.54		1.78	28.85	48	560	
Address:		9:00	2.00	93.92	8.76	3.54		1.73	28.95	30	560	
City, State:	STT, USVI	9:05	2.50	94.70	8.76	3.54		1.72	29.05	10	560	
Project No.:	40200.011.032.1052	9:10	3.00	95.15	8.78	3.54		1.95	29.58	-51	560	
Date:	Oct 4, 2019	9:15	3.50	95.90	8.61	3.54		2.35	30.14	-99	560	
Weather:	Partly Cloudy, 84˚ F	9:20	3.75	95.92	8.56	3.54		2.24	30.31	-99	560	
Well Permit #:		9:25	4.00	96.20	8.52	3.53		2.12	30.36	-100	560	
Well Diameter (inches):	6	9:30	4.50	97.00	8.52	3.47		1.80	30.40	-105	560	
PID/FID Reading (ppm):	0.980	9:35	5.00	97.30	8.55	3.18		1.18	31.69	-109	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	92.66											
Vol of Water in Well (gal):												
Purge Start Time:	8:45											
Purge Stop Time:	9:38											
Pump Intake Depth (ft):	102.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):	96.50											
Sample Method:												
Sample Time:	9:38											
Analyses:	TCL VOC											
Sample #:	OU2-MW-5-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

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WELL PURGE SHEET

Well ID #:	OU2-MW-4	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G.Rodriguez**	10:20	0.50	38.20	11.56	2.58	*Clear	4.36	28.66	-39	560	
Site Name:	Tutu Well Field	10:25	1.00	38.24	11.78	2.68		2.50	28.91	-42	560	
Address:		10:30	1.75	38.76	12.44	1.20		2.63	29.79	-131	560	
City, State:	STT, USVI	10:35	2.50	38.88	12.46	1.31		1.30	29.78	-138	560	
Project No.:	40200.011.032.1052	10:40	3.25	39.20	12.55	1.25		1.26	29.28	-153	560	
Date:	Oct 4, 2019	10:45	3.50	39.25	12.55	2.58		1.11	29.56	-161	560	
Weather:	Sunny, 85° F	10:50	3.75	23.80	12.51	2.54		0.98	29.70	-164	560	
Well Permit #:		10:55	4.00	40.00	12.55	2.29		0.73	29.27	-174	560	
Well Diameter (inches):	6	11:00	4.25	40.20	12.53	2.16		0.63	29.68	-178	560	
PID/FID Reading (ppm):	0.760	11:05	4.50	40.35	12.49	2.07		0.59	30.14	-181	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	37.46											
Vol of Water in Well (gal):												
Purge Start Time:	10:20											
Purge Stop Time:	11:07											
Pump Intake Depth (ft):	91.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	4.55											
DTW After Purge (ft):												
Sample Method:												
Sample Time:	11:07											
Analyses:	TCL VOC											
Sample #:	OU2-MW-4-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

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WELL PURGE SHEET

Well ID #:	MW-1D	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G. Rodriguez**	13:20	0.50	14.20	10.97	0.620	*Clear	4.89	28.24	2	560	
Site Name:	Tutu Well Field	13:25	0.75	14.32	10.70	0.640		3.65	28.22	3	560	
Address:		13:30	1.00	14.40	10.54	0.648		2.75	28.28	8	560	
City, State:	STT, USVI	13:35	1.25	15.00	9.93	0.657		1.54	28.48	19	560	
Project No.:	40200.011.032.1052	13:40	1.75	15.03	9.63	0.661		1.03	28.71	22	560	
Date:	Oct 4, 2019.	13:45	2.00	15.10	9.50	0.664		0.82	28.82	24	560	
Weather:	Sunny, 85˚ F	13:50	2.50	15.45	9.33	0.667		0.58	29.06	24	560	
Well Permit #:		13:55	3.00	15.60	9.30	0.666		0.52	29.14	22	560	
Well Diameter (inches):	6	14:00	3.25	15.60	9.08	0.669		0.43	29.34	28	560	
PID/FID Reading (ppm):	0	14:05	4.00	15.86	9.06	0.666		0.19	29.01	26	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	14.00											
Vol of Water in Well (gal):												
Purge Start Time:	13:20											
Purge Stop Time:	14:07											
Pump Intake Depth (ft):	76.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	4.25											
DTW After Purge (ft):	16.45											
Sample Method:												
Sample Time:	14:06											
Analyses:	TCL VOC											
Sample #:	MW-1D-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	RD-13	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G. Rodriguez**	14:30	0.25	21.90	8.71	1.41	*Clear	3.35	30.04	0	560	
Site Name:	Tutu Well Field	14:35	0.50	22.45	8.59	1.42		2.33	29.66	-15	560	
Address:		14:40	0.85	22.35	8.48	1.44		1.48	29.45	-25	560	
City, State:	STT, USVI	14:45	1.50	23.36	8.18	1.46		1.39	29.62	-86	560	
Project No.:	40200.011.032.1052	14:50	2.00	24.00	8.18	1.46		1.69	29.16	-95	560	
Date:	Oct 4, 2019	14:55	2.50	24.90	8.14	1.46		2.08	29.26	-105	560	
Weather:	Sunny, 86˚ F	15:00	3.00	26.30	8.12	1.45		2.04	29.44	-118	560	
Well Permit #:		15:05	3.50	26.40	8.16	1.45		1.90	29.62	-125	560	
Well Diameter (inches):	4	15:10	4.00	27.90	7.97	1.46		1.39	29.03	-118	560	
PID/FID Reading (ppm):	0	15:15	4.50	28.40	7.99	1.46		1.24	29.15	-121	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	21.83											
Vol of Water in Well (gal):												
Purge Start Time:	14:25											
Purge Stop Time:	15:20											
Pump Intake Depth (ft):	94.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	4.50											
DTW After Purge (ft):	29.13											
Sample Method:												
Sample Time:	15:18											
Analyses:	TCL VOC											
Sample #:	RD-13-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	OU2-MW-3	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G. Rodriguez**	16:00	1.00	21.60	9.14	1.32	*Clear	6.19	31.44	-14	560	
Site Name:	Tutu Well Field	16:05	1.50	22.50	8.49	1.39		3.72	30.95	-2	560	
Address:		16:10	2.00	22.60	8.47	1.39		3.60	30.90	-4	560	
City, State:	STT, USVI	16:15	2.50	22.60	8.42	1.40		3.36	30.78	-14	560	
Project No.:	40200.011.032.1052	16:20	3.00	22.65	8.37	1.40		2.98	30.69	-24	560	
Date:	Oct 4, 2019.	16:25	3.50	22.70	8.33	1.40		2.73	30.62	-30	560	
Weather:	Sunny, 85° F	16:30	4.00	22.70	8.26	1.41		2.45	30.55	-35	560	
Well Permit #:		16:35	4.50	22.80	8.24	1.41		2.20	30.50	-50	560	
Well Diameter (inches):	6	16:40	5.00	22.80	8.29	1.42		1.59	30.11	-54	560	
PID/FID Reading (ppm):	0	16:45	5.50	22.85	8.38	1.42		1.51	30.07	-65	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	21.30											
Vol of Water in Well (gal):												
Purge Start Time:	15:55											
Purge Stop Time:	16:50											
Pump Intake Depth (ft):	100.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	5.50											
DTW After Purge (ft):												
Sample Method:												
Sample Time:	16:46											
Analyses:	TCL VOC											
Sample #:	OU2-MW-3-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

RINSE BLANK SAMPLE #: RB-2-191004-01

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WELL PURGE SHEET

Well ID #:	IW-2	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G. Rodriguez**	8:40	1.00	1.40	6.82	4.88	*Clear	2.80	27.99	97	560	
Site Name:	Tutu Well Field	8:45	1.50	1.78	6.68	6.14		3.00	27.98	8	560	
Address:		8:50	2.00	1.90	6.66	6.15		2.15	28.42	-15	560	
City, State:	STT, USVI	8:55	2.50	1.98	6.66	6.16		1.24	29.21	-31	560	
Project No.:	40200.011.032.1052	9:00	3.00	2.30	6.67	6.13		1.31	27.89	-33	560	
Date:	Oct 5, 2019.	9:05	3.50	2.85	6.67	6.14		1.00	28.09	-37	560	
Weather:	Sunny, 84˚ F	9:10	4.00	3.20	6.67	6.12		0.85	28.20	-39	560	
Well Permit #:		9:15	4.50	3.65	6.63	6.19		0.78	27.88	-41	560	
Well Diameter (inches):	6	9:20	5.00	4.10	6.63	6.09		0.65	27.97	-43	560	
PID/FID Reading (ppm):	0	9:25	5.50	4.50	6.65	6.06		0.66	28.45	-48	560	
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	1.20											
Vol of Water in Well (gal):												
Purge Start Time:	8:35											
Purge Stop Time:	9:37											
Pump Intake Depth (ft):	86.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):	5.50											
DTW After Purge (ft):	5.58											
Sample Method:												
Sample Time:	9:35											
Analyses:	TCL VOC											
Sample #:	IW-2-001-01											
Field Duplicate Sample #:	IW-2-001-02											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Turbidity meter not working - water is clear

RINSE BLANK SAMPLE #: RB-2-191005-01

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WELL PURGE SHEET

Well ID #:	MW-12D	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**K. Donohue**	12:57	N/A	22.08	7.04	1.21	*Clear	N/D	30.78	101	500	INITIAL
Site Name:	Tutu Well Field	13:19	N/A	22.05	6.93	1.38		8.45	29.62	81	500	INITIAL-REPEAT
Address:		13:24	N/A	22.30	6.95	1.38		6.53	29.80	62	500	
City, State:	STT, USVI	13:29	N/A	22.30	6.97	1.39		4.93	30.05	55	500	
Project No.:	40200.011.032.1052	13:34	2.50	22.30	7.00	1.39		4.09	29.95	42	500	
Date:	Sep 30, 2019	13:39	3.00	22.32	7.04	1.39		3.60	30.06	36	500	
Weather:	Sunny, 92˚ F	13:44	3.50	22.32	7.06	1.40		3.04	30.09	32	500	
Well Permit #:		13:49	5.00	22.30	7.09	1.40		2.63	30.11	30	500	
Well Diameter (inches):												
PID/FID Reading (ppm):	0.050											
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	22.30											
Vol of Water in Well (gal):												
Purge Start Time:												
Purge Stop Time:												
Pump Intake Depth (ft):	65.00											
Purge Duration (min):												
Purge Method:	Low flow/Grundfos/Horiba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	13:50											
Analyses:	TCL VOC											
Sample #:	MW12D-001-01											
Field Duplicate Sample #:	MW12D-001-02											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments: *Clear turbidity meter not working.

Duplicate Sample + MS/MSD collected here.

T.O.S.= 60.5 FT N/D- No Data Available

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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	RD-7	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**K. Donohue**	15:15	N/A	25.00	8.91	0.001	*Clear	9.88	33.91	22	750	
Site Name:	Tutu Well Field	15:20	N/A	25.40	7.39	1.39		1.36	29.98	75	750	
Address:		15:25	3.00	25.40	7.40	1.40		1.07	29.98	69	750	
City, State:		15:30	4.00	25.40	7.46	1.40		0.84	30.02	57	750	
Project No.:	40200.011.032.1052	15:35	4.50	25.40	7.50	1.40		0.67	30.04	48	750	
Date:	Sep 30, 2019	15:40	5.50	25.40	7.55	1.40		0.57	30.06	40	750	
Weather:	Sunny, 92°F	15:45	6.00	25.40	7.61	1.40		0.52	30.06	33	750	
Well Permit #:												
Well Diameter (inches):	4											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	25.00											
Vol of Water in Well (gal):												
Purge Start Time:												
Purge Stop Time:												
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:												
Analyses:	TCL VOC											
Sample #:	RD7-0001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments: *Clear, turbidity meter not working.

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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	MW-11D	**Time**	**Volume Purged (gal)**	**DTW (ft)**	**pH (pH units)**	**Conductivity (uS/cm)**	**Turbidity (NTUs)**	**DO (mg/L)**	**Temp. (°C)**	**ORP (mv)**	**Pumping Rate (mL/min)**	**Comment**
Form Completed by:	**K. Donohue**	9:45	2.00	15.50	6.52	1.72	1	2.24	29.73	60	500	Initial
Site Name:	Tutu Well Field	9:50	3.00	15.70	6.88	1.65	0.6	2.19	29.59	47	500	DTW=15.7
Address:		9:55	4.00	15.70	6.97	1.64	0	1.80	29.68	28	500	
City, State:		10:00	5.00	15.70	6.95	1.64	0	1.44	29.78	14	500	
Project No.:	40200.011.032.1052	10:05	6.00	15.70	7.00	1.64	0	1.44	29.68	25	500	
Date:	Oct 1, 2019	10:10	7.00	15.70	7.06	1.63	0	1.46	29.47	29	500	
Weather:	Sunny, 82˚F											
Well Permit #:												
Well Diameter (inches):	6											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	15.50											
Vol of Water in Well (gal):												
Purge Start Time:	9:45											
Purge Stop Time:	10:10											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	10:10											
Analyses:	TCL VOC											
Sample #:	MW11D-001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

DTW with and without pump=15.5 ft

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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	MW-25	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**K. Donohue**	12:10	0.50	10.47	7.26	0.95	9.9	2.96	31.91	77	500	Initial
Site Name:	Tutu Well Field	12:15	1.50	11.10	7.83	1.44	10.7	2.50	30.68	89	500	
Address:		12:20	2.50	11.50	7.55	1.44	10.8	2.04	30.45	95	500	
City, State:		12:25	3.00	12.20	7.53	1.45	13.0	2.51	29.73	93	500	
Project No.:	40200.011.032.1052	12:30	4.00	12.80	7.01	0.59	11.8	4.06	28.66	94	500	
Date:	Oct 1, 2019	12:35	5.00	12.90	7.72	1.45	7.2	4.15	30.63	98	500	
Weather:	Sunny, 84˚F	12:45	5.50	13.10	7.46	1.44	7.2	1.60	30.45	98	500	
Well Permit #:		12:50	6.00	13.60	7.40	1.45	7.0	1.36	30.04	93	500	
Well Diameter (inches):	6											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	10.47											
Vol of Water in Well (gal):												
Purge Start Time:	12:10											
Purge Stop Time:	12:55											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	12:50											
Analyses:	TCL VOC											
Sample #:	MW25-001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

DTW without pump= 10.47 ft. Water level dropping at 500 ml/minute flow rate.

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WELL PURGE SHEET

Well ID #:	RD-8	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**K. Donohue**	15:25	N/D	29.40	7.65	1.20	8.70	2.91	30.21	70	500	Initial
Site Name:	Tutu Well Field	15:30	N/D	30.60	7.63	1.18	17.3	2.35	29.56	74	500	
Address:		15:35	4.00	30.60	7.56	1.17	11.5	2.38	29.43	74	500	
City, State:	STT, USVI	15:40	5.00	30.60	7.44	1.16	7.90	1.82	29.40	73	500	
Project No.:	40200.011.032.1052	15:45	6.00	30.60	7.33	1.16	6.20	1.58	29.58	76	500	
Date:	Oct 1, 2019	15:50	7.00	30.60	7.32	1.16	5.30	1.96	29.54	80	500	
Weather:	Sunny, 84˚F											
Well Permit #:												
Well Diameter (inches):	6											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	29.60											
Vol of Water in Well (gal):												
Purge Start Time:	15:25											
Purge Stop Time:	15:55											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	15:50											
Analyses:	TCL VOC											
Sample #:	RD8-001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

DTW without pump=29.6 ft

DTW with pump=29.4 ft

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WELL PURGE SHEET

Well ID #:	MW-7	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**K. Donhue**	16:55	1.00	16.70	7.69	1.44	12.2	5.37	28.48	135	1000	Initial
Site Name:	Tutu Well Field	17:00	1.50	16.95	7.38	1.46	23.2	3.93	28.28	139	500	
Address:		17:05	2.50	16.80	7.22	1.46	7.10	2.81	28.36	140	500	
City, State:	STT, USVI	17:10	3.50	16.80	7.23	1.46	5.70	3.83	28.14	134	500	
Project No.:	40200.011.032.1052	17:15	5.00	16.80	7.24	1.47	2.60	3.89	28.18	127	500	
Date:	Oct 1, 2019	17:20	6.50	16.80	7.25	1.47	3.10	4.08	28.08	127	500	
Weather:	Sunny, 85˚F											
Well Permit #:												
Well Diameter (inches):	4											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	16.70											
Vol of Water in Well (gal):												
Purge Start Time:	16:55											
Purge Stop Time:	17:20											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	17:30											
Analyses:	TCL VOC											
Sample #:	MW7-001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

DTW without pump= 16.7 ft

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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	RD-4	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**K. Donohue**	14:50	1.00	77.20	8.18	0.269	53.2	4.80	29.42	-36	2000 ↓	Initial
Site Name:	Tutu Well Field	14:55	1.55	77.20	7.73	0.474	43.8	3.09	29.53	-115	1500 ↓	
Address:		15:00	2.50	77.20	7.70	0.507	46.9	2.30	29.68	-149	1500	
City, State:	STT, USVI	15:05	3.00	78.50	7.73	0.506	43.0	2.59	29.49	-151	1000 ↓	
Project No.:	40200.011.032.1052	15:15	4.00	79.80	7.68	0.510	55.3	2.08	30.97	-138	200 ↓	
Date:	Oct 2, 2019	15:25	5.00	81.40	7.70	0.502	27.3	3.78	31.05	-112	400	
Weather:	Sunny, 95°F	15:35	NR	NR	NR	NR	NR	NR	NR	NR	200 ↓	
Well Permit #:		15:45	6.00	82.40	7.60	0.456	28.3	3.55	28.40	-74	200	
Well Diameter (inches):	4	15:55	6.50	82.60	7.65	0.514	43.4	3.93	30.29	-88.00	200	
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	76.30											
Vol of Water in Well (gal):												
Purge Start Time:	14:50											
Purge Stop Time:	16:05											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	16:00											
Analyses:	TCL VOC											
Sample #:	RD-4-001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

DTW without pump= 74.3 ft

NR - No Reading

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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	RD-14	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**K. Donohue**	9:10	0.50	3.20	8.60	2.51	38.0	2.80	28.54	-109	500	Initial
Site Name:	Tutu Well Field	9:15	1.00	3.70	8.60	2.06	20.9	2.25	28.64	-63	500 ↓	
Address:		9:20	2.00	4.15	9.14	2.64	17.2	2.39	28.01	-104	200	
City, State:	STT, USVI	9:25	2.50	4.20	9.23	2.65	14.5	3.26	28.17	-87	300	
Project No.:	40200.011.032.1052	9:35	3.00	4.75	9.26	2.65	13.8	2.94	28.60	-102	300	
Date:	Oct 3, 2019											
Weather:	Sunny, 87°F											
Well Permit #:												
Well Diameter (inches):	6											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):	8.30											
Depth to Water (ft):	2.40											
Vol of Water in Well (gal):												
Purge Start Time:	9:10											
Purge Stop Time:	9:45											
Pump Intake Depth (ft):	79											
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):	3.00											
DTW After Purge (ft):												
Sample Method:												
Sample Time:	9:40											
Analyses:	TCL VOC											
Sample #:	RD-14-001-01*											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

DTW without pump= 2.4 ft

*Sample effverces slightly with acid in VOA

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WELL PURGE SHEET

Well ID #:	MW-15	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**K. Donohue**	11:35	NR	5.50	9.15	1.37	8.7	4.64	29.77	49	1000 ↓	Initial
Site Name:	Tutu Well Field	11:40	NR	5.60	8.15	1.48	7.3	3.60	29.37	99	400	
Address:		11:45	1.00	5.52	7.77	1.49	4.4	3.58	29.26	118	400	
City, State:	STT, USVI	11:50	NR	5.50	7.63	1.49	4.0	4.01	29.11	127	400	
Project No.:	40200.011.032.1052	11:55	1.50	5.50	7.57	1.49	3.6	3.92	29.09	130	400	
Date:	Oct 3, 2019	12:00	2.50	5.60	7.49	1.49	4.4	2.65	28.76	135	1000 ↑	
Weather:	Sunny, 86˚F	12:05	4.00	5.61	7.41	1.49	2.6	2.96	28.60	136	1000	
Well Permit #:												
Well Diameter (inches):	6											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	5.50											
Vol of Water in Well (gal):												
Purge Start Time:	11:35											
Purge Stop Time:	12:05											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	12:05											
Analyses:	TCL VOC											
Sample #:	MW-15-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

DTW with and without pump=5.5 ft

NR - Not Recorded

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WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	MW-5	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**K. Donohue**	13:45	N/D	22.10	8.21	1.43	1.0	3.08	29.25	28	1500	Initial
Site Name:	Tutu Well Field	13:50	1.00	22.10	7.43	1.42	0.5	2.83	29.63	38	500	
Address:		13:55	ND	ND	ND	ND	ND	ND	ND	ND	ND	Generator out of fuel
City, State:	STT, USVI	14:10	4.00	22.10	6.96	1.41	0.1	2.82	30.10	45	1500	
Project No.:	40200.011.032.1052	14:20	5.00	22.10	6.91	1.42	0.1	1.59	29.72	32	1500	
Date:	Oct 3, 2019	14:25	7.00	22.10	6.89	1.41	0.1	1.76	29.51	23	1500	
Weather:	Sunny, 87˚F											
Well Permit #:												
Well Diameter (inches):	4											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):	40.00											
Depth to Water (ft):	22.10											
Vol of Water in Well (gal):												
Purge Start Time:	13:45											
Purge Stop Time:	14:25											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	14:30											
Analyses:	TCL VOC											
Sample #:	MW-5-001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

DTW with and without pump = 22.1 ft

T.O.S.= 19 ft ND - No Data

The Trusted Integrator for Sustainable Solutions

Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201
Edison, New Jersey

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	RD-5	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**K. Donohue**	15:25	N/D	28.50	8.02	1.34	2.6	4.82	31.51	74	1500	Initial
Site Name:	Tutu Well Field	15:30	1.00	28.60	7.77	1.32	2.9	3.51	30.42	25	1000	
Address:		15:35	2.00	28.60	7.56	1.31	0.3	2.92	30.39	32	1000	
City, State:	STT, USVI	15:40	3.50	28.60	7.50	1.30	0.1	3.41	30.26	25	1000	
Project No.:	40200.011.032.1052	15:45	4.50	28.60	7.45	1.30	0.1	3.70	30.12	39	1000	
Date:	Oct 3, 2019	15:50	5.50	28.60	7.40	1.30	0.1	4.07	30.33	40	1000	
Weather:	Sunny, 87˚F											
Well Permit #:												
Well Diameter (inches):	4											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):	45.00											
Depth to Water (ft):	28.40											
Vol of Water in Well (gal):												
Purge Start Time:	15:25											
Purge Stop Time:	15:55											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	15:55											
Analyses:	TCL VOC											
Sample #:	RD-5-001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

DTW w/o pump= 28.4 ft

Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201
Edison, New Jersey

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	MW-14	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**J. Siegel**	9:08	NR	NR	8.28	1.13	14.5	4.28	27.87	115	700	Initial
Site Name:	Tutu Well Field	9:15	2.00	21.22	7.54	1.11	3.2	3.21	29.08	97	700	
Address:		9:20	2.50	21.25	7.45	1.13	2.0	3.61	29.34	86	700	
City, State:	STT, USVI	9:25	3.00	21.26	7.39	1.14	1.0	2.45	29.60	86	700	
Project No.:	40200.011.032.1052	9:30	4.50	21.27	7.36	1.16	0.4	2.87	29.68	74	700	
Date:	Oct 4, 2019	9:35	5.00	21.28	7.29	1.17	0.1	2.68	29.54	74	700	
Weather:	Partly Cloudy, 84˚F											
Well Permit #:												
Well Diameter (inches):	4											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	20.87	9:04										
Vol of Water in Well (gal):												
Purge Start Time:	9:08											
Purge Stop Time:	9:45											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	9:45											
Analyses:	TCL VOC											
Sample #:	MW-14-001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

NR - Not Recorded

Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201
Edison, New Jersey

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	OU2-MW-2	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**J. Siegel**	13:08	NR	26.70	8.00	0.422	8.0	5.56	32.02	80	700	Initial
Site Name:	Tutu Well Field	13:15	1.50	27.05	7.51	1.32	3.90	2.15	31.01	105	700	
Address:		13:20	2.50	27.05	7.50	1.54	4.70	2.04	30.17	86	700	
City, State:	STT, USVI	13:25	4.00	27.06	7.46	1.60	1.50	2.55	30.21	72	700	
Project No.:	40200.011.032.1052	13:30	4.75	27.07	7.37	1.59	0	1.76	30.53	69	700	
Date:	Oct 4, 2019	13:35	5.25	27.07	7.37	1.61	0	2.24	30.12	78	700	
Weather:	Partly Cloudy, 84˚F	13:40	6.50	27.07	7.37	1.61	0	2.75	30.14	86	700	
Well Permit #:												
Well Diameter (inches):	2											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	26.70											
Vol of Water in Well (gal):												
Purge Start Time:	13:08											
Purge Stop Time:	13:50											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	13:45											
Analyses:	TCL VOC											
Sample #:	OU2-MW-2-001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

DTW w pump= 26.7 ft

NR - Not Recorded

Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201
Edison, New Jersey

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	OU2-MD-2	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**J. Siegel**	10:50	NR	25.59	7.73	1.41	30.2	3.40	29.27	-25	600	Initial
Site Name:	Tutu Well Field	10:55	2.00	NR	7.61	1.61	2.70	1.58	29.01	13	NR	Generator out of gas
Address:		11:02	NR	NR	NR	NR	NR	NR	NR	NR	NR	Generator back on
City, State:	STT, USVI	11:10	2.50	25.66	7.36	1.60	3.20	1.34	29.12	21	700	
Project No.:	40200.011.032.1052	11:15	4.00	25.75	7.29	1.60	2.00	2.22	28.89	22	700	
Date:	Oct 4, 2019	11:30	7.00	25.76	7.28	1.61	1.50	2.64	28.77	42	700	
Weather:	Partly Cloudy, 84˚F											
Well Permit #:												
Well Diameter (inches):	6											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	25.33	10:44										
Vol of Water in Well (gal):												
Purge Start Time:	10:50											
Purge Stop Time:	11:45											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	11:40											
Analyses:	TCL VOC											
Sample #:	OU2-MD-2-001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

NR - Not Recorded

Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201
Edison, New Jersey

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	IW-1S	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**J. Siegel**	14:20	-	25.55	7.88	1.49	4.60	3.58	29.79	91	600	Initial
Site Name:	Tutu Well Field	14:30	1.00	25.61	7.73	1.49	1.90	2.99	30.05	91	600	
Address:		14:35	2.00	25.62	7.74	1.57	1.60	4.25	29.47	101	600	
City, State:	STT, USVI	14:40	3.00	25.62	7.62	1.59	1.70	3.22	29.63	111	600	
Project No.:	40200.011.032.1052	14:45	4.00	25.62	7.72	1.59	1.20	3.16	29.42	108	600	
Date:	Oct 4, 2019	14:50	5.00	25.62	7.65	1.59	0.90	3.50	29.39	113	600	
Weather:	Sunny, 86˚F											
Well Permit #:												
Well Diameter (inches):	4											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):												
Vol of Water in Well (gal):												
Purge Start Time:	14:20											
Purge Stop Time:	15:05											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	15:00											
Analyses:	TCL VOC											
Sample #:	IW-1S-001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201
Edison, New Jersey

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	IW-1	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**J. Siegel**	15:23	NR	26.18	7.70	1.40	1.00	2.24	29.15	-56	300	Initial
Site Name:	Tutu Well Field	15:30	NR	26.70	7.79	1.42	0.30	2.43	28.50	-65	500 ↑	
Address:		15:35	NR	27.30	7.60	1.42	0.30	1.36	28.37	-82	500 ↓	
City, State:	STT, USVI	15:40	2.50	27.70	7.21	1.11	0.10	1.67	28.22	-7	400	
Project No.:	40200.011.032.1052	15:50	3.00	28.45	7.07	1.42	0.20	1.65	27.70	-58	400	
Date:	Oct 4, 2019	15:55	3.50	28.59	7.60	1.40	0.30	1.84	28.32	-66	400	
Weather:	Sunny, 84˚F	16:05	5.00	NR	NR	NR	NR	NR	NR	NR	NR	
Well Permit #:												
Well Diameter (inches):	6											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):												
Vol of Water in Well (gal):												
Purge Start Time:	15:23											
Purge Stop Time:	16;10											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	16:10											
Analyses:	TCL VOC											
Sample #:	IW-1-001-01											
Field Duplicate Sample #:	N/A											
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

RINSE BLANK SAMPLE #: RB-1-191004-01

NR - Not Recorded

WESTON SOLUTIONS
The Trusted Integrator for Sustainable Solutions

Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201
Edison, New Jersey

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	OU2-MW6	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**J. Siegel**	8:38	NR	28.69	8.43	0.344	77.4	1.90	27.52	-86	800	Initial
Site Name:	Tutu Well Field	8:45	1.50	28.70	8.22	0.317	78.8	1.05	28.28	-197	800	
Address:		8:55	4.50	28.70	8.04	0.314	78.9	0.85	28.60	-185	800	
City, State:	STT, USVI	9:05	6.50	28.70	7.95	0.311	80.8	0.85	28.78	-163	800	
Project No.:	40200.011.032.1052	9:15	9.00	28.71	7.90	0.312	77.8	1.17	28.88	-150	1000 ↑	Increase
Date:	Oct 5, 2019	9:20	12.00	28.71	7.86	0.320	89.6	0.87	28.85	-158	1000	
Weather:	Sunny, 84˚F											
Well Permit #:												
Well Diameter (inches):	6											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):												
Vol of Water in Well (gal):												
Purge Start Time:	8:38											
Purge Stop Time:	9:35											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	9:30											
Analyses:	TCL VOC											
Sample #:	OU2-MW6-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

Yellow water color

NR - Not Recorded

Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201
Edison, New Jersey

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	RD-9	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**J. Siegel**	10:06	NR	26.59	8.00	0.538	7.80	5.43	28.41	66	600	INITIAL
Site Name:	Tutu Well Field	10:20	NR	28.79	8.12	0.882	2.50	1.74	28.38	-86	600 ↓	
Address:		10:25	NR	29.99	7.73	1.100	0.90	1.74	28.58	-85	300	
City, State:	STT, USVI	10:30	NR	30.41	7.68	1.040	1.00	2.04	28.30	-84	300	
Project No.:	40200.011.032.1052	10:46	NR	31.34	7.61	0.862	1.70	2.49	28.32	-79	300	
Date:	Oct 5, 2019											
Weather:	Sunny, 84˚F											
Well Permit #:												
Well Diameter (inches):	4											
PID/FID Reading (ppm):												
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):												
Vol of Water in Well (gal):												
Purge Start Time:	10:06											
Purge Stop Time:	10:50											
Pump Intake Depth (ft):												
Purge Duration (min):												
Purge Method:	Low Flow/Grunfos/Horriba											
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):												
Sample Method:												
Sample Time:	10:49											
Analyses:	TCL VOC											
Sample #:	RD-9-001-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

RINSE BLANK SAMPLE #: RB-1-191005-01

NR - Not Recorded

WESTON SOLUTIONS
The Trusted Integrator for Sustainable Solutions

Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201
Edison, New Jersey

WESTON SOLUTIONS, INC.
WELL PURGE SHEET

Well ID #:	Tillet	Time	Volume Purged (gal)	DTW (ft)	pH (pH units)	Conductivity (uS/cm)	Turbidity (NTUs)	DO (mg/L)	Temp. (°C)	ORP (mv)	Pumping Rate (mL/min)	Comment
Form Completed by:	**G. Rodriguez**	10:30	1.00	22.20	7.82	1.33	*Clear	6.34	29.67	11		
Site Name:	Tutu Well Field	10:35	1.50	22.26	7.85	1.33		5.35	29.32	11		
Address:		10:40	2.25	22.30	7.84	1.35		4.65	29.21	10		
City, State:	STT, USVI	10:45	3.50	22.32	7.74	1.35		3.76	29.05	16		
Project No.:	40200.011.032.1052	10:50	4.00	22.20	7.73	1.35		3.56	29.98	18		
Date:	Oct 5,2019	10:55	5.00	22.25	7.73	1.35		3.38	28.93	20		
Weather:		11:00	5.50	22.11	7.86	1.35		3.29	28.95	11		
Well Permit #:		11:05	6.00	22.13	7.88	1.35		3.30	29.11	14		
Well Diameter (inches):	6	11:10	6.50	22.16	7.85	1.35		3.26	29.16	17		
PID/FID Reading (ppm):	1.98	11:15	7.00	22.18	7.84	1.35		3.25	29.16	18		
Product Thickness (ft):												
Depth to Bottom (ft):												
Depth to Water (ft):	22.10											
Vol of Water in Well (gal):												
Purge Start Time:	10:25											
Purge Stop Time:	11:20											
Pump Intake Depth (ft):	86.00											
Purge Duration (min):												
Purge Method:												
Purge Rate (gpm):												
Total Vol Purged (gal):												
DTW After Purge (ft):	22.10											
Sample Method:												
Sample Time:	11:20:00 AM											
Analyses:	TCL VOC											
Sample #:	P0004-TILLET-101005-01											
Field Duplicate Sample #:												
Well Volume Correction Factors (gallons per foot):												
6" = 1.47, 4" = 0.65, 3" = 0.377, 2" = 0.17, 1" = 0.04												

Comments:

*Clear - Turbidity meter not working



Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201
Edison, New Jersey

ATTACHMENT E

Chains of Custody Record

K5219

USEPA
DateShipped: 10/2/2019
CarrierName: FedEx
AirbillNo: 776438606140

CHAIN OF CUSTODY RECORD
~~Site #: 021D~~ RFP #609 (ED)
Contact Name: Kathryn Donohue
Contact Phone: 732-570-4943

No: 2-100219-0032-0052-0001
Lab: Chemtech Consulting Group
Lab Address: 284 Sheffield Street
Lab Phone: 908-789-8900

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	TB-191002-01	N/A	TCL VOCs	DI Water	10/2/2019	09:00	3	40 ml VOA	HCL, pH<2	N
	DW-2-001-01	DW-2	TCL VOCs	Ground Water	10/1/2019	10:30	3	40 ml VOA	HCL, pH<2	N
	MW-11D-001-01	MW-11D	TCL VOCs	Ground Water	10/1/2019	10:00	3	40 ml VOA	HCL, pH<2	N
	MW-12D-001-01	MW-12D	TCL VOCs	Ground Water	9/30/2019	13:50	9	40 ml VOA	HCL, pH<2	Y
	MW-12D-001-02	MW-12D	TCL VOCs	Ground Water	9/30/2019	13:50	3	40 ml VOA	HCL, pH<2	N
	MW-2-001-01	MW-2	TCL VOCs	Ground Water	10/1/2019	17:34	3	40 ml VOA	HCL, pH<2	N
	MW-25-001-01	MW-25	TCL VOCs	Ground Water	10/1/2019	12:50	3	40 ml VOA	HCL, pH<2	N
	MW-7-001-01	MW-7	TCL VOCs	Ground Water	10/1/2019	17:30	3	40 ml VOA	HCL, pH<2	N
	MW-8-001-01	MW-8	TCL VOCs	Ground Water	10/1/2019	13:15	3	40 ml VOA	HCL, pH<2	N
	RB-1-190930-01	N/A	TCL VOCs	DI Water	9/30/2019	16:00	3	40 ml VOA	HCL, pH<2	N
	RB-1-191001-01	N/A	TCL VOCs	DI Water	10/1/2019	17:30	3	40 ml VOA	HCL, pH<2	N
	RB-2-191001-01	N/A	TCL VOCs	DI Water	10/1/2019	17:52	3	40 ml VOA	HCL, pH<2	N
	RD-7-001-01	RD-7	TCL VOCs	Ground Water	9/30/2019	15:45	3	40 ml VOA	HCL, pH<2	N
	RD-8-001-01	RD-8	TCL VOCs	Ground Water	10/1/2019	13:50	3	40 ml VOA	HCL, pH<2	N

10/2/19

Special Instructions: Please email results to s.sumbaly@westonsolutions.com. Detection limit of 1.0 ppb per RFP#609.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All samples All analyses	Weston START V	10/2/19 1030		10-4-19 0955	3.3°C NO TAGS IR GUN #1 custody seals intact Temp Blk present

FedEx Express **International Air Waybill**

K5219

Origin Copy

FedEx Tracking Number 8147 6505 3248 0402 Form ID No.

1 From

Date 10/02/19 Sender's FedEx Account Number 402356103

Sender's Name Kathryn Donohue Phone 7325704943

Company Weston Solutions, Inc.

Address 1090 King Georges Post Rd.

Address

City Edison State/Province NJ

Country U.S. ZIP/Postal Code 08837

Email Address kathryn.donohue@westonsolutions.com

Internal Billing Reference 40200.011.032.1052

2 To

28 ☐ Residential Delivery

Recipient's Name Kurt Hummler Phone 908 789 8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept/Floor

Address

City Mountainside State/Province NJ

Country U.S. ZIP/Postal Code 07092

Email Address

Recipient's Tax ID Number for Customs Purposes

3 Shipment Information

Total Packages Shipper's Load and Count/SLAC

Total Weight ☐ lbs. ☐ kg DIM / / ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental water samples		USVI	

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: USD

Total Value for Customs (Specify Currency): $1.00

4 Express Package Service

NOTE: Service order has changed. Please select carefully.

06 ☐ FedEx Intl. First 01 ☒ FedEx Intl. Priority 03 ☐ FedEx Intl. Economy

5 Packaging

06 ☐ FedEx Envelope 02 ☐ FedEx Pak 03 ☐ FedEx Box 04 ☐ FedEx Tube

15 ☐ FedEx 10kg Box 25 ☐ FedEx 25kg Box 01 ☒ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

01 ☐ HOLD at FedEx Location 03 ☐ SATURDAY Delivery

10 ☐ Direct Signature – Someone at recipient's address may sign for delivery.

34 ☐ Indirect Signature – If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries 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.

1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check/Cheque

Total Transportation

FedEx Acct. No. [redacted]

Specify Currency

Credit Card Exp. Date

Bill duties and taxes to:

Enter FedEx Acct. No. below.

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 5 ☐ Cash/Check/Cheque

FedEx Acct. No. 10/3/19 0855 3.3 C

8 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 or Montreal 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: Kathryn

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature

662

Origin Station ID	Country Code/Destination Station ID	URSA Routing	Handling Units
SV	KBCA	XA KBCA	Total Volume (cm)

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☐ World Service Center 5 ☐ Station

Forms Attached: ☐ CI ☐ CO

Base Charges FedEx Emp. # Declared Val. Chrg. Audit Emp. # Other Date 10/2 Time ODA/OPA Del. Courier Emp. # Credit Card Auth. Date Time

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RRDA 02/19

PACKAGE LABEL 8147650532 48 COMMERCIAL INVOICE LABEL 8147650532 48 DELIVERY RECORD LABEL 8147650532 48 DELIVERY REATTEMPT LABEL 8147650532 48

K5219

2 of 2 coolers

K5310

4

4.1

USEPA
DateShipped: 10/7/2019
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 021D
Contact Name: Joel Siegel
Contact Phone: 732-570-5022

No: 2-100719-0032-0052-0001
Lab: Chemtech Consulting Group
Lab Address: 284 Sheffield Street
Lab Phone: 908-789-8900

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	IW-1-001-01	IW-1	TCL VOCs	Ground Water	10/4/2019	16:10	3	40 ml VOA	HCL, pH<2	N
	IW-1S-001-01	IW-1S	TCL VOCs	Ground Water	10/4/2019	15:00	3	40 ml VOA	HCL, pH<2	N
	IW-2-001-01	IW-2	TCL VOCs	Ground Water	10/5/2019	09:35	9	40 ml VOA	HCL, pH<2	Y
	IW-2-001-02	IW-2	TCL VOCs	Ground Water	10/5/2019	09:36	3	40 ml VOA	HCL, pH<2	N
	MW-10D-001-01	MW-10D	TCL VOCs	Ground Water	10/3/2019	09:53	3	40 ml VOA	HCL, pH<2	N
	MW-13D-001-01	MW-13D	TCL VOCs	Ground Water	10/3/2019	17:25	3	40 ml VOA	HCL, pH<2	N
	MW-14-001-01	MW-14	TCL VOCs	Ground Water	10/4/2019	09:45	3	40 ml VOA	HCL, pH<2	N
	MW-15-001-01	MW-15	TCL VOCs	Ground Water	10/3/2019	12:05	3	40 ml VOA	HCL, pH<2	N
	MW-1D-001-01	MW-1D	TCL VOCs	Ground Water	10/4/2019	14:06	3	40 ml VOA	HCL, pH<2	N
	MW-21D-001-01	MW-21D	TCL VOCs	Ground Water	10/2/2019	17:08	3	40 ml VOA	HCL, pH<2	N
	MW-5-001-01	MW-5	TCL VOCs	Ground Water	10/3/2019	14:30	3	40 ml VOA	HCL, pH<2	N
	MW-6D-001-01	MW-6D	TCL VOCs	Ground Water	10/3/2019	11:55	9	40 ml VOA	HCL, pH<2	Y
	MW-6D-001-02	MW-6D	TCL VOCs	Ground Water	10/3/2019	11:55	3	40 ml VOA	HCL, pH<2	N
	OU2-MD-2-001-01	OU2-MD-2	TCL VOCs	Ground Water	10/4/2019	11:40	3	40 ml VOA	HCL, pH<2	N
	OU2-MW-1-001-01	OU2-MW-1	TCL VOCs	Ground Water	10/3/2019	15:50	3	40 ml VOA	HCL, pH<2	N
	OU2-MW-2-001-01	OU2-MW-2	TCL VOCs	Ground Water	10/4/2019	13:45	3	40 ml VOA	HCL, pH<2	N
	OU2-MW-3-001-01	OU2-MW-3	TCL VOCs	Ground Water	10/4/2019	16:46	3	40 ml VOA	HCL, pH<2	N
	OU2-MW-4-001-01	OU2-MW-4	TCL VOCs	Ground Water	10/4/2019	11:07	3	40 ml VOA	HCL, pH<2	N
	OU2-MW-5-001-01	OU2-MW-5	TCL VOCs	Ground Water	10/4/2019	09:38	3	40 ml VOA	HCL, pH<2	N

Special Instructions: Please email results to s.sumbaly@westonsolutions.com. Detection limit of 1.0 ppb per RFP #609. Small bubbles were noticed at time of collection in samples IW-2-001-01 and RD-14-001-01 due to effervescence with HCL.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Analytes	Joel Siegel Weston	10/11/19 1600		10-10-19 0915	2.9°C NO TAGS IRGUN #1 custody seals intact Temp Blk- present

K5309

USEPA
DateShipped: 10/7/2019
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 021D
Contact Name: Joel Siegel
Contact Phone: 732-570-5022

No: 2-100719-0032-0052-0001
Lab: Chemtech Consulting Group
Lab Address: 284 Sheffield Street
Lab Phone: 908-789-8900

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	OU2-MW-6-001-01	OU2-MW-6	TCL VOCs	Ground Water	10/5/2019	09:30	3	40 ml VOA	HCL, pH<2	N
	RB-1-191002-01	N/A	TCL VOCs	DI Water	10/2/2019	16:45	3	40 ml VOA	HCL, pH<2	N
	RB-1-191003-01	N/A	TCL VOCs	DI Water	10/3/2019	16:05	3	40 ml VOA	HCL, pH<2	N
	RB-1-191004-01	N/A	TCL VOCs	DI Water	10/4/2019	16:30	3	40 ml VOA	HCL, pH<2	N
	RB-1-191005-01	N/A	TCL VOCs	DI Water	10/5/2019	10:06	3	40 ml VOA	HCL, pH<2	N
	RB-2-191002-01	N/A	TCL VOCs	DI Water	10/2/2019	17:30	3	40 ml VOA	HCL, pH<2	N
	RB-2-191003-01	N/A	TCL VOCs	DI Water	10/3/2019	17:25	3	40 ml VOA	HCL, pH<2	N
	RB-2-191004-01	N/A	TCL VOCs	DI Water	10/4/2019	16:57	3	40 ml VOA	HCL, pH<2	N
	RB-2-191005-01	N/A	TCL VOCs	DI Water	10/5/2019	11:30	3	40 ml VOA	HCL, pH<2	N
	RD-1-001-01	RD-1	TCL VOCs	Ground Water	10/2/2019	14:25	3	40 ml VOA	HCL, pH<2	N
	RD-13-001-01	RD-13	TCL VOCs	Ground Water	10/4/2019	15:18	3	40 ml VOA	HCL, pH<2	N
	RD-14-001-01	RD-14	TCL VOCs	Ground Water	10/3/2019	09:40	3	40 ml VOA	HCL, pH<2	N
	RD-2-001-01	RD-2	TCL VOCs	Ground Water	10/2/2019	10:00	3	40 ml VOA	HCL, pH<2	N
	RD-3-001-01	RD-3	TCL VOCs	Ground Water	10/2/2019	11:23	3	40 ml VOA	HCL, pH<2	N
	RD-4-001-01	RD-4	TCL VOCs	Ground Water	10/2/2019	16:00	3	40 ml VOA	HCL, pH<2	N
	RD-5-001-01	RD-5	TCL VOCs	Ground Water	10/3/2019	15:55	3	40 ml VOA	HCL, pH<2	N
	RD-6-001-01	RD-6	TCL VOCs	Ground Water	10/2/2019	09:15	3	40 ml VOA	HCL, pH<2	N
	RD-9-001-01	RD-9	TCL VOCs	Ground Water	10/5/2019	10:49	3	40 ml VOA	HCL, pH<2	N
	TB-191007-01	N/A	TCL VOCs	DI Water	10/7/2019	09:00	3	40 ml VOA	HCL, pH<2	N

Special Instructions: Please email results to s.sumbaly@westonsolutions.com. Detection limit of 1.0 ppb per RFP #609. Small bubbles were noticed at time of collection in samples IW-2-001-01 and RD-14-001-01 due to effervescence with HCL.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Analytes	[signature] Weston	10/9/19 16:00	[signature]	10-10-19 0915	2.9°C NO TAGS IR GUN #1 custody seals intact Temp BLK. present

K5309

USEPA
DateShipped: 10/7/2019
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 021D
Contact Name: Joel Siegel
Contact Phone: 732-570-5022

No: 2-100719-0032-0052-0001
Lab: Chemtech Consulting Group
Lab Address: 284 Sheffield Street
Lab Phone: 908-789-8900

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	TB-2-191007-01	N/A	TCL VOCs	DI Water	10/7/2019	09:05	3	40 ml VOA	HCL, pH<2	N

Special Instructions: Please email results to s.sumbaly@westonsolutions.com. Detection limit of 1.0 ppb per RFP #609. Small bubbles were noticed at time of collection in samples IW-2-001-01 and RD-14-001-01 due to effervescence with HCL.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Analyses	Joel Siegel Weston	10/7/19 12:00		10-10-19 0915	2.9°C NO TAGS IR GUN #1 custody seals intact Temp BK. present

FedEx Express **International Air Waybill**

K5309
K5310
K5311

Origin Copy 4

2.2

FedEx Tracking Number 8147 6505 3605 0402 Form ID No.

1 From

Date 10/7/19 Sender's FedEx Account Number 402356103

Sender's Name Joel Siegel Phone 7325705022

Company Weston Solutions Inc.

Address 1090 King Georges Post Rd.

Address

City Edison State Province NJ

Country U.S. ZIP Postal Code 08837

Email Address joel.siegel@westonsolutions.com

Internal Billing Reference

2 To 28 ☐ Residential Delivery

Recipient's Name Kurt Hummler Phone 9087898900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept/Floor

Address

City Mountainside State Province NJ

Country U.S. ZIP Postal Code 07092

Email Address

Recipient's Tax ID Number for Customs Purposes

3 Shipment Information

Total Packages 3 Shipper's Load and Count/SLAC

Total Weight 135 ☑ lbs. ☐ kg DIM / / ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental water samples			100

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) 100

4 Express Package Service

NOTE: Service order has changed. Please select carefully.

06 ☐ FedEx Intl. First 01 ☑ FedEx Intl. Priority 03 ☐ FedEx Intl. Economy

5 Packaging

06 ☐ FedEx Envelope 02 ☐ FedEx Pak 03 ☐ FedEx Box 04 ☐ FedEx Tube

15 ☐ FedEx 10kg Box 25 ☐ FedEx 25kg Box 01 ☑ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

01 ☐ HOLD at FedEx Location 03 ☐ SATURDAY Delivery

10 ☐ Direct Signature – Someone at recipient's address may sign for delivery.

34 ☐ Indirect Signature – If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries 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.

1 ☑ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash Check/Cheque

FedEx Acct. No. 402-356-103 Total Transportation

Credit Card Exp. Date Specify Currency

Bill duties and taxes to:

Enter FedEx Acct. No. below.

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 5 ☐ Cash Check/Cheque

FedEx Acct. No.

10/10/19 095 2-9ac

8 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 or Montreal 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: Joel Siegel

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature

662

Origin Station ID	Country Code/Destination Station ID	URSA Routing	Handling Units
	KBCA	XA KBCA	Total Volume (cm)

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☐ World Service Center 5 ☐ Station

Forms Attached: ☐ CI ☐ CO

Base Charges Declared Val. Chrg. Other ODA/ OPA Credit Card Auth.

FedEx Emp. # Audit Emp. # Date 10/7 Time Del. Courier Emp. # Date Time

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RRDA 02/19

PACKAGE LABEL — COMMERCIAL INVOICE LABEL — DELIVERY RECORD LABEL — DELIVERY REATTEMPT LABEL

8147650536O5

8147650536O5

K5311

4

4.1

USEPA
DateShipped: 10/7/2019
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 021D
Contact Name: joel Siegel
Contact Phone: 732-570-5022

No: 2-100719-101523-0004
Lab: Chemtech Consulting Group
Lab Address: 284 Sheffield Street
Lab Phone: 908-789-8900

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	TB-3-191007-1	N/A	TCL VOCs	DI Water	10/7/2019	09:05	3	40 ml VOA	HCL, pH<2	N
	P0001-SMITH-1101007-01	P0001-SMITH	TCL VOCs	Potable Water	10/7/2019	08:30	3	40 ml VOA	HCL, pH<2	N
	P0002-STEELE-191007-01	P0002-STEELE	TCL VOCs	Potable Water	10/7/2019	08:57	9	40 ml VOA	HCL, pH<2	Y
	P0002-STEELE-191007-02	P0002-STEELE	TCL VOCs	Potable Water	10/7/2019	08:57	2	40 ml VOA	HCL, pH<2	N
	P0003-DELEGARD-191007-01	P0003- DELEGARD	TCL VOCs	Potable Water	10/7/2019	08:30	3	40 ml VOA	HCL, pH<2	N
	P0004-TILLET-101005-01	P0004-TILLET	TCL VOCs	Potable Water	10/5/2019	11:20	3	40 ml VOA	HCL, pH<2	N

Special Instructions: Detection Limits for these samples are 0.5 ppb as per RFP # 609
Sample P0002-Steele-191007-02 has 2 VOAs due to breakage.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Analysis		10/10/19 11:00		10-10-19 0915	3.2°C NO TAGS IR GUN #1 custody seals intact Temp Blk- present

~~K5309~~ K5311

FedEx Express International Air Waybill

Manifest Billing Copy

PACKAGE LABEL — COMMERCIAL INVOICE LABEL — DELIVERY RECORD LABEL — DELIVERY REATTEMPT LABEL

8147650536O5 8147650536O5 8147650536O5

1 From

Date 10/7/19 Sender's FedEx Account Number 402356103

Sender's Name Joel Siegel Phone 7325705022

Company Weston Solutions Inc.

Address 1090 King Georges Post Rd.

Address

City Edison State/Province NJ

Country U.S. ZIP/Postal Code 08837

Email Address joel.siegel@westonsolutions.com

Internal Billing Reference

2 To 28 ☐ Residential Delivery

Recipient's Name Kurt Hummler Phone 908 789 8900

Company Chemtech Consulting Group

Address 284 Sheffield Street Dept./Floor

Address

City Mountainside State/Province NJ

Country U.S. ZIP/Postal Code 07092

Email Address

Recipient's Tax ID Number for Customs Purposes

3 Shipment Information

Total Packages Shipper's Load and Count/SLAC 3 Total Weight 135 ☑ lbs. ☐ kg DIM / / ☐ in. ☐ cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental water samples			1.00

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: 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) 1.00

FedEx Tracking Number 8147 6505 3605 0402 Form ID No.

4 Express Package Service

NOTE: Service order has changed. Please select carefully.

36 ☐ FedEx Intl. First 01 ☑ FedEx Intl. Priority 03 ☐ FedEx Intl. Economy

5 Packaging

06 ☐ FedEx Envelope 02 ☐ FedEx Pak 03 ☐ FedEx Box 04 ☐ FedEx Tube

15 ☐ FedEx 10kg Box 25 ☐ FedEx 25kg Box 01 ☑ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

01 ☐ HOLD at FedEx Location 03 ☐ SATURDAY Delivery

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery.

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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.

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check/Cheque

Total Transportation

FedEx Acct. No. 402-356-103

Credit Card No. Specify Currency

Credit Card Exp. Date

Bill duties and taxes to: Enter FedEx Acct. No. below.

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party

FedEx Acct. No.

8 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 or Montreal 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:

662

Origin Station ID	Country Code/Destination Station ID	URSA Routing	Handling Units / Total Volume (cm)

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☐ World Service Center 5 ☐ Station

Forms Attached: ☐ CI ☐ CO

Base Charges ____ Declared Val. Chrg. ____ Other ____ ODA/OPA ____ Credit Card Auth. ____

FedEx Emp. # ____ Audit Emp. # ____ Date ____ Time ____ Del. Courier Emp. # ____ Date ____ Time ____

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RRDA 02/19

10/10/19 3:22 pm 0915

ATTACHMENT F

Data Validation Report

Weston Solutions, Inc.
1090 King Georges Post Road, Suite 201
Edison, New Jersey 08837-3703
Phone: 732-585-4400
www.westonsolutions.com

SUPERFUND TECHNICAL ASSESSMENT & RESPONSE TEAM V
EPA CONTRACT NO.: 68HE0319D0004

START V-01-F-0031

TRANSMITTAL MEMO

To:	Mr. Louis DiGuardia, On-Scene Coordinator Emergency and Remedial Response Division U.S. EPA, Region II
From:	Smita Sumbaly, Data Reviewer START V, Region II
Subject:	TuTu Wellfield Site Data Validation Assessment
Date:	November 13, 2019

The purpose of this memo is to transmit the following information:

- Data validation results for the following parameters:

Volatiles Organic Compounds	59 Samples

- Matrices and Number of Samples

Potable Water	5 Samples
Groundwater	39 samples
DI Water/Trip Blanks	4 Samples
DI Water/Rinsate Blanks	11 Samples

- Sampling Dates: September 30 through October 7, 2019

The final data assessment narrative and original analytical data package are attached.

cc:	START V SPM:	Joel Siegel
	START V SITE FILE TD #:	TO-0032-0052
	START V ANALYTICAL TD #:	TO-0032-0079
	TASK#:	1079

U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: November 13, 2019

TO: **Mr. Louis DiGuardia**
U.S. EPA, Region II

FROM: **Smita Sumbaly**
START V Data Review Team

SUBJECT: **QA/QC Compliance Review Summary**

As requested quality control and performance measures for the data packages noted have been examined and compared to the U.S. Environmental Protection Agency, Region II (EPA) standards for compliance. Measures for the following general areas were evaluated as applicable:

Data Completeness	Blanks
Initial Calibration	Continuing Calibration
Laboratory Control Sample	Holding Times
Internal Standard	Surrogate Recovery
Field Duplicate	GC/MS Tuning

Summary of Results

	TCL VOCs
Acceptable as Submitted	____
Acceptable with Comments	X
Unacceptable, Action Pending	____
Unacceptable	____

Data Reviewed by: Smita Sumbaly Date: 11/13/19

Approved By: Date: 11/13/19

Area Code/Phone No.: (732) 585-4410

NARRATIVE

PCS No. 1079

SITE NAME: TuTu Wellfield Site
Anna's Retreat
St. Thomas
U.S. Virgin Islands

Laboratory Name: Chemtech Consulting Group, Inc., 284 Sheffield Street, Mountainside, New Jersey 07092.

INTRODUCTION:

The laboratory's portion of this case consisted of 39 groundwater samples, including three field duplicates; five potable water samples, including one field duplicate; 11 rinsate blanks, and four trip blanks collected from September 30, 2019 through October 7, 2019 for Target Compound List (TCL) Volatiles (VOC) analysis. The Chemtech Consulting Group, Inc. order numbers are K5219, K5309, K5310, and K5311.

The laboratory reported No problem(s) with the receipt of these samples.

The laboratory reported No problems with analyses of TCL VOCs.

The evaluator has commented on the criteria specified under each fraction heading. All criteria have been assessed, but no discussion is given where the evaluator has determined that criteria were adequately performed or require no comment. Details relevant to these comments are given on the following forms.

Any statistical measures used to support the following conclusions are attached so that the information may be reviewed by others.

Organic:

Y Holding Time	Y MS/MSD
Y GC/MS Tuning	Y Compound ID (HSL, TIC)
Y Calibration, Initial	Y Spectra Quality (GC/MS only)
Y Calibration, Continuing	Y Standards
Y Blank	Y Chromatography
Y Surrogate Recovery	Y Data Completeness
Y Laboratory Control Sample	

Comments:

1. Refer to Data Assessment Narrative.

REGION II RST 3 DATA ASSESSMENT REPORT

SITE: TuTu Wellfield Site **SDG No.:** K5219

LAB: Chemtech Consulting Group, Inc., 284 Sheffield Street, Mountainside, New Jersey, 07092

ANALYSIS: Target Compound List (TCL) Volatile Organic Compounds (VOCs)

No. of Samples/Matrix: 10/Groundwater, 3/Rinsate Blank, 1/Trip Blank

CONTRACTOR: Weston Solutions, Inc., Superfund Technical Assessment & Response Team V (START V)

The following table summarizes the analytical methods used for the requested analysis and the U.S. Environmental Protection Agency, Region II (EPA), data validation standard operating procedures (SOPs) used for data validation.

Analysis	Analytical Method	Data Validation SOP No.
VOCs	CLP SOW SOM02.4_Trace	No. HW-34A (Revision 1), September 2016

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various quality control (QC) problems some analytes may have been qualified with a "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: Smita Sumbaly **Date:** 11/13/2019

Verified By: _____ **Date:** 11/13/19

From September 30 through October 2, 2019, EPA Region II and START V sampling personnel collected 10 groundwater samples, including one field duplicate, three rinsate blanks, and one trip blank for trace TCL VOC analysis from the TuTu Wellfield Site located in Anna's Retreat, St. Thomas, U.S. Virgin Islands. Within 24 hours of sample collection, the samples were shipped via FedEx under Chain of Custody for the requested analysis to Chemtech Consulting Group, Inc. located at 284 Sheffield Street, Mountainside, New Jersey. The laboratory verified that samples were received intact, properly sealed, and refrigerated. Sample cooler temperatures measured 3.3 Degrees Celsius (°C).

Field Sample ID	Lab Sample ID	Matrix	Analysis	Sampling Date
SDG No.: K5219				
TB-191002-01	K5219-01	Trip Blank	TCL VOC	10/02/2019
DW-2-001-01	K5219-02	Groundwater	TCL VOC	10/01/2019
MW-11D-001-01	K5219-03	Groundwater	TCL VOC	10/01/2019
MW-12D-001-01	K5219-04	Groundwater	TCL VOC	9/30/2019
MW-12D-001-02[1]	K5219-07	Groundwater	TCL VOC	9/30/2019
MW-2-001-01	K5219-08	Groundwater	TCL VOC	10/01/2019
MW-25-001-01	K5219-09	Groundwater	TCL VOC	10/01/2019
MW-7-001-01	K5219-10	Groundwater	TCL VOC	10/01/2019
MW-8-001-01	K5219-11	Groundwater	TCL VOC	10/01/2019
RB-1-190930-01	K5219-12	Rinsate Blank	TCL VOC	9/30/2019
RB-1-191001-01	K5219-13	Rinsate Blank	TCL VOC	10/01/2019
RB-2-191001-01	K5219-14	Rinsate Blank	TCL VOC	10/01/2019
RD-7-001-01	K5219-15	Groundwater	TCL VOC	9/30/2019
RD-8-001-01	K5219-16	Groundwater	TCL VOC	10/01/2019

[1] A field duplicate of MW-12D-001-01

The current SOP HW-34A (Revision 1) September 2016, USEPA Region II Data Validation SOP for Statement of Work SOM02.4 for evaluating Trace Volatile organic data has been applied.

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. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

2. DEUTERATED MONITORING COMPOUNDS (DMCs)
All samples are spiked with DMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured DMC recoveries were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

The following samples have one or more DMC/surrogate recovery values 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.

1,1-Dichloroethene-d2: RB-1-190930-01, RB-1-191001-01, and RB-2-191001-01
trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, 1,1-Dichloroethene

3. MATRIX SPIKE/ MATRIX SPIKE DUPLICATE (MS/MSD) RECOVERY:
MS/MSD data is generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other QC criteria for additional qualification of data.

Sample MW-12D-001-01 was used for MS/MSD analyses. No problems were found for this criterion.

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. Depending on the amount of contamination present in the QA blanks, the analytes are qualified as non-detects, "U". Qualifications were applied to the samples and analytes as shown below.

A) Method blank contamination:

No problems were found for this criterion.

B) Trip or Rinse blank contamination:

Chloromethane concentration in trip blank was less than the contract required quantitation limit (CRQL). The chloromethane concentrations in samples MW-12D-001-01, MW-2-001-01, and MW-25-001-01 were also reported less than the the CRQLs. Detected compounds are qualified U. Non-detected compounds are not qualified. Sample concentrations reported below CRQL have been elevated to the CRQL.

Chloromethane – CRQL with 'U' qualifier applied to samples MW-12D-001-01, MW-2-001-01, and MW-25-001-01

Acetone was detected at concentration above 4 times (4x) CRQL in the trip blank and rinsate blanks. Detected acetone results were qualified as non-detect (U) at the blank concentration. Non-detected compounds were not qualified.

Acetone – Blank value with 'U' qualifier applied to samples DW-2-001-01, MW-11D-001-01, MW-12D-001-01, MW-12D-001-02, MW-2-001-01, MW-25-001-01, MW-7-001-01, MW-8-001-01, RD-7-001-01, and RD-8-001-01

Benzene, toluene, o-xylene, m,p-xylene, styrene, and/or carbon disulfide were detected less than CRQL in the trip blank and/or rinsate blanks. Since, benzene, toluene, o-xylene, m,p-xylene, styrene, and/or carbon disulfide samples results were non-detect in associated samples, no qualification was required.

D) Storage Blank associated with VOA samples only:

No problems were found for this criterion.

E) Tentatively Identified Compounds:

No problems were found for this criterion.

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 Bromofluorobenzene (BFB). If the mass calibration is in error, all associated data will be classified as unusable "R". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

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 verifications (CCVs) 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 must be $\geq$ 0.05, and $\geq$ 0.01 for the poor performers in both the initial and opening continuing calibrations. For closing continuing

calibration response factor for all target compounds must be ≥ 0.01. A value < 0.05 for target compounds 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 were found for this criterion.

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 CCV to the mean relative response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD and %D must meet criteria listed in Table 2 of SOP HW-34A. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J". Non-detects are flagged "UJ" for %D values outside criteria only. If %RSD exceeds QC criteria, non-detects may be qualified using professional judgement. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

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 be in the range of 60% - 140 % of the associated continuing calibration internal standard from the associated continuing calibration standard. If the area count is greater than 140%, all positive results quantitated using that IS are qualified as estimated "J-", and non-detects are not qualified. If the area count is less than 60% of the associated standard, all positive results for compounds quantitated with that IS are qualified as estimated "J+" and all non-detects are qualified "R".

If an internal standard retention time varies by more than 20 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

8. FIELD DUPLICATES:
Sample pairs MW-12D-001-01 and MW-12D-001-02 were collected and analyzed as an overall indication of precision. This analysis measures both field and laboratory precision. A control limit of 20% for the Relative Percent Difference (RPD) will be used for original and duplicate sample values ≥ five times (5x) the Contract Required Quantitation Limit (CRQL). A control limit of the CRQL will be used if either the sample or duplicate value is < 5x the CRQL. For field duplicate analysis that does not meet the technical criteria, the action was applied to only the field sample and it's duplicate.

Chloromethane was detected in sample MW-12D-001-01 at a concentration less than the reporting limit but was not detected in its field duplicate MW-12D-001-02. Chloromethane was previously qualified as U in field sample MW-12D-001-01, due to trip/rinsate blanks contamination. Since both results are non-detected, no further qualification was required.

Acetone was detected in sample MW-12D-001-01 and its field duplicate MW-12D-001-02 at a concentration less than the reporting limit. Acetone was previously qualified as U in field sample MW-12D-001-01 and its field duplicate MW-12D-001-02, due to trip/rinsate blanks contamination. Since both results are non-detected, no further qualification was required.

9. COMPOUND IDENTIFICATION:

Target 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 a window of 0.06 RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/z 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. Qualifications were applied to the samples and analytes as shown below.

No problems were identified.

10. CONTRACT NON-COMPLIANCE:

No problems were identified.

11. FIELD DOCUMENTATION:

The Chain-of-Custody was reviewed; no problems were found.

12. OTHER PROBLEMS:

None

13. DILUTIONS, RE-EXTRACTIONS & REANALYSIS:

Samples may be reanalyzed after dilution, re-extraction and for other QC reasons. In such cases, the best result values are consolidated in one single report and the other report is marked as not to be used. The following Form 1(s) are not used:

None

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: September 30 through October 2, 2019

Matrix	DI Water (Trip Blank)	Groundwater	Groundwater	Groundwater	Groundwater
Field Sample ID	TB-191002-01	DW-2-001-01	MW-11D-001-01	MW-12D-001-01	MW-12D-001-02[1]
Lab Sample ID	K5219-01	K5219-02	K5219-03	K5219-04	K5219-07
Dilution Factor	1	1	1	1	1
Volatile Organic Compounds (ug/L)					
Dichlorodifluoromethane	0.50 U	0.50 U	**2.4**	0.50 U	0.50 U
Chloromethane	**0.17 J**	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	**35**	35 U	35 U	35 U	35 U
Carbon disulfide	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	0.50 U	**0.1 J**	0.50 U	0.50 U	0.50 U
Methyl tert-butyl Ether	0.50 U	**0.48 J**	**0.68**	**0.34 J**	**0.34 J**
1,1-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	0.50 U	**3.6**	**3.5**	**4.4**	**4.4**
2-Butanone	5.0 U	5.0 U	5.0 U	0.50 U	0.50 U
Bromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	0.50 U	0.50 U	**1.2**	**0.54**	**0.70**
1,1,1-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	**0.15 J**	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	0.50 U	**2.7**	**3.3**	**2.5**	**2.4**
Methylcyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	**0.88**	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	0.50 U	**7.2**	**3.7**	**12**	**12**
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: September 30 through October 2, 2019

Matrix	DI Water (Trip Blank)	Groundwater	Groundwater	Groundwater	Groundwater
Field Sample ID	TB-191002-01	DW-2-001-01	MW-11D-001-01	MW-12D-001-01	MW-12D-001-02[1]
Lab Sample ID	K5219-01	K5219-02	K5219-03	K5219-04	K5219-07
Dilution Factor	1	1	1	1	1
Ethylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-xylene	**0.19 J**	0.50 U	0.50 U	0.50 U	0.50 U
m,p-xylene	**0.26 J**	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	**0.16 J**	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

U - non-detected
J: Estimated for low bias
[1] Field Duplicate of MW-12D-001-01
Results reported to the Reporting Limit
Bolded result - Detected Value
ug/L - micrograms per Liter

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: September 30 through October 2, 2019

Matrix	Groundwater	Groundwater	Groundwater	Groundwater	DI Water (Rinsate Blank)
Field Sample ID	MW-2-001-01	MW-25-001-01	MW-7-001-01	MW-8-001-01	RB-1-190930-01
Lab Sample ID	K5219-08	K5219-09	K5219-10	K5219-11	K5219-12
Dilution Factor	1	1	1	1	1
Volatile Organic Compounds (ug/L)					
Dichlorodifluoromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	0.50 U	0.50 U	0.50 U	0.50 U	**0.14 J**
Vinyl chloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	35 U	35 U	35 U	35 U	**30**
Carbon disulfide	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ
Methyl tert-butyl Ether	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ
cis-1,2-Dichloroethene	**0.69**	**1.2**	**0.82**	**0.68**	0.50 UJ
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	**0.64**	**0.65**	**0.74**	**1.0**	0.50 U
1,1,1-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	**0.45 J**	**0.76**	**0.37 J**	**0.51**	0.50 U
Methylcyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	0.50 U	0.50 U	0.50 U	0.50 U	**0.67**
trans-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	**2.4**	**2.0**	**5.0**	**3.3**	0.50 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: September 30 through October 2, 2019

Matrix	Groundwater	Groundwater	Groundwater	Groundwater	DI Water (Rinsate Blank)
Field Sample ID	MW-2-001-01	MW-25-001-01	MW-7-001-01	MW-8-001-01	RB-1-190930-01
Lab Sample ID	K5219-08	K5219-09	K5219-10	K5219-11	K5219-12
Dilution Factor	1	1	1	1	1
Ethylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-xylene	0.50 U	0.50 U	0.50 U	0.50 U	**0.14 J**
m,p-xylene	0.50 U	0.50 U	0.50 U	0.50 U	**0.18 J**
Styrene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

U - non-detected
J-: Estimated for low bias
Results reported to the Reporting Limit
Bolded result - Detected Value
ug/L - micrograms per Liter

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: September 30 through October 2, 2019

Matrix	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)	Groundwater	Groundwater
Field Sample ID	RB-1-191001-01	RB-2-191001-01	RD-7-001-01	RD-8-001-01
Lab Sample ID	K5219-13	K5219-14	K5219-15	K5219-16
Dilution Factor	1	1	1	1
Volatile Organic Compounds (ug/L)				
Dichlorodifluoromethane	0.50 U	0.50 U	0.50 U	**0.15 J**
Chloromethane	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	**8.2**	**33**	35 U	35 U
Carbon disulfide	**0.25 J**	0.50 U	0.50 U	0.50 U
Methyl Acetate	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	0.50 UJ	0.50 UJ	0.50 U	0.50 U
Methyl tert-butyl Ether	0.50 U	0.50 U	**0.72**	0.50 U
1,1-Dichloroethane	0.50 UJ	0.50 UJ	0.50 U	0.50 U
cis-1,2-Dichloroethene	0.50 UJ	0.50 UJ	**4.3**	**0.16 J**
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	0.50 U	0.50 U	**1.2**	0.50 U
1,1,1-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	0.50 U	0.50 U	**2.8**	**0.14 J**
Methylcyclohexane	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	**0.51**	**0.51**	0.50 U	0.50 U
trans-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	0.50 U	0.50 U	**10**	0.50 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: September 30 through October 2, 2019

Matrix	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)	Groundwater	Groundwater
Field Sample ID	RB-1-191001-01	RB-2-191001-01	RD-7-001-01	RD-8-001-01
Lab Sample ID	K5219-13	K5219-14	K5219-15	K5219-16
Dilution Factor	1	1	1	1
Ethylbenzene	0.50 U	0.50 U	0.50 U	0.50 U
o-xylene	0.50 U	**0.12 J**	0.50 U	0.50 U
m,p-xylene	**0.13 J**	**0.15 J**	0.50 U	0.50 U
Styrene	**0.18 J**	0.50 U	0.50 U	0.50 U
Bromoform	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U

U - non-detected
J-: Estimated for low bias
Results reported to the Reporting Limit
Bolded result - Detected Value
ug/L - micrograms per Liter

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : K5219

Project ID : RFP 609

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
K5219-01	TB-191002-01
K5219-02	DW-2-001-01
K5219-03	MW-11D-001-01
K5219-04	MW-12D-001-01
K5219-05	MW-12D-001-01MS
K5219-06	MW-12D-001-01MSD
K5219-07	MW-12D-001-02
K5219-08	MW-2-001-01
K5219-09	MW-25-001-01
K5219-10	MW-7-001-01
K5219-11	MW-8-001-01
K5219-12	RB-1-190930-01
K5219-13	RB-1-191001-01
K5219-14	RB-2-191001-01
K5219-15	RD-7-001-01
K5219-16	RD-8-001-01
K5219-17	VHBLK01

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED
By Nimisha Pandya, QA QC Supervisor at 5:14 pm, Oct 17, 2019

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 609
Project # N/A
Chemtech Project # K5219
Test Name: VOC-Low Level -15

A. Number of Samples and Date of Receipt:
17 Water samples were received on 10/04/2019.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-Low Level -15. This data package contains results for VOC-Low Level -15.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_U were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-Low Level -15 was based on method SOM02.4_Trace.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for
RB-1-190930-01 [1,1-Dichloroethene-d2 - 58%],
RB-1-191001-01 [1,1-Dichloroethene-d2 - 59%],
RB-2-191001-01 [1,1-Dichloroethene-d2 - 58%]. As per method, 3 surrogates are allowed to fail. No corrective action was taken.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD met criteria.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

Concentration Calculations:

$$\text{Concentration in ug/L} = \frac{(Ax)\,(Is)\,(DF)}{(Ais)\,(RRF)\,(Vo)}$$

Where,

Ax = Area of the characteristic ion (EICP) for the compound to be measured.
Ais = Area of the characteristic ion (EICP) for the internal standard.
Is = Amount of internal standard added in ng.
RRF = Mean Relative Response Factor from the initial calibration standard.
Vo = Total volume of water purged, in mL.
DF = Dilution Factor.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA QC Supervisor at 5:14 pm, Oct 17, 2019

SAMPLE DATA

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
TB-191002-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034962.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.17	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	35	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.15	J
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
TB-191002-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034962.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.88	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.19	J
179601-23-1	m,p-Xylene	0.26	J
100-42-5	Styrene	0.16	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
TB-191002-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034962.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TB-191002-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034962.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/07/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000066-25-1	Hexanal	8.45	0.64	JN
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
DW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034964.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~2.0~~ 35	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.10	J
1634-04-4	Methyl tert-butyl Ether	0.48	J
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	3.6	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	2.7	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
DW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034964.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	7.2	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
DW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034964.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
DW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034964.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/07/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-11D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034965.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	2.4	
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.9~~ 35	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.68	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	3.5	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	1.2	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	3.3	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-11D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034965.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	3.7	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-11D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034965.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-11D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034965.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/07/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-12D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-04
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034963.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	~~0.24~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~4.2~~ 35	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.34	J
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	4.4	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.54	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	2.5	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-12D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-04
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034963.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	12	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-12D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-04
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034963.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-12D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-04
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034963.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/07/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-12D-001-02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034966.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.5~~ 35	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.34	J
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	4.4	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.70	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	2.4	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-12D-001-02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034966.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	12	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-12D-001-02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034966.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-12D-001-02

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5219
Level :
Lab Sample ID : K5219-07
Lab File ID : VU034966.D
Date Received : 10/04/2019
Date Extracted :
Date Analyzed : 10/07/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034967.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	~~0.16~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~2.0~~ 35	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.69	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.64	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.45	J

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034967.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	2.4	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034967.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034967.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/07/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-25-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034968.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	~~0.16~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.6~~ 35	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.2	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.65	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.76	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-25-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034968.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	2.0	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-25-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034968.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-25-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034968.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/07/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-7-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-10
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034969.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.6~~ 35	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.82	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.74	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.37	J

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-7-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-10
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034969.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	5.0	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-7-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-10
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034969.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-7-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-10
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034969.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/07/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-8-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-11
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034970.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~2.5~~ 35	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.68	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	1.0	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.51	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-8-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-11
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034970.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	3.3	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-8-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-11
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034970.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-8-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-11
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034970.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/07/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-190930-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035003.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/09/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.14	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	30	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U J
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U J
156-59-2	cis-1,2-Dichloroethene	0.50	U J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-190930-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035003.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/09/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.67	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.14	J
179601-23-1	m,p-Xylene	0.18	J
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-190930-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035003.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/09/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB-1-190930-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035003.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/09/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000066-25-1	Hexanal	8.45	0.64	JN
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035004.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/09/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	8.2	
75-15-0	Carbon disulfide	0.25	J
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U J
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U J
156-59-2	cis-1,2-Dichloroethene	0.50	U J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035004.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/09/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.51	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.13	J
100-42-5	Styrene	0.18	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035004.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/09/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB-1-191001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035004.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/09/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035005.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/09/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	33	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U J
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U J
156-59-2	cis-1,2-Dichloroethene	0.50	U J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035005.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/09/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.51	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.12	J
179601-23-1	m,p-Xylene	0.15	J
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035005.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/09/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB-2-191001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035005.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/09/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000066-25-1	Hexanal	8.45	0.83	JN
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-7-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-15
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034974.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~2.1~~ 35	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.72	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	4.3	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	1.2	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	2.8	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-7-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-15
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034974.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	10	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-7-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-15
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034974.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-7-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-15
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034974.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/07/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-8-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-16
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034975.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.15	J
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~2.1~~ 35	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.16	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.14	J

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-8-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-16
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034975.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-8-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-16
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034975.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/07/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-8-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-16
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU034975.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/07/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5219
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5219-17
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035006.D
% Solids :
Date Received : 10/04/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/09/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

SHIPPING DOCUMENTS

K5219

USEPA
DateShipped: 10/2/2019
CarrierName: FedEx
AirbillNo: 776438606140

CHAIN OF CUSTODY RECORD
~~Site #: 021D~~ - RFP #609 (ED)
Contact Name: Kathryn Donohue
Contact Phone: 732-570-4943

No: 2-100219-0032-0052-0001
Lab: Chemtech Consulting Group
Lab Address: 284 Sheffield Street
Lab Phone: 908-789-8900

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	TB-191002-01	N/A	TCL VOCs	DI Water	10/2/2019	09:00	3	40 ml VOA	HCL, pH<2	N
	DW-2-001-01	DW-2	TCL VOCs	Ground Water	10/1/2019	10:30	3	40 ml VOA	HCL, pH<2	N
	MW-11D-001-01	MW-11D	TCL VOCs	Ground Water	10/1/2019	10:00	3	40 ml VOA	HCL, pH<2	N
	MW-12D-001-01	MW-12D	TCL VOCs	Ground Water	9/30/2019	13:50	9	40 ml VOA	HCL, pH<2	Y
	MW-12D-001-02	MW-12D	TCL VOCs	Ground Water	9/30/2019	13:50	3	40 ml VOA	HCL, pH<2	N
	MW-2-001-01	MW-2	TCL VOCs	Ground Water	10/1/2019	17:34	3	40 ml VOA	HCL, pH<2	N
	MW-25-001-01	MW-25	TCL VOCs	Ground Water	10/1/2019	12:50	3	40 ml VOA	HCL, pH<2	N
	MW-7-001-01	MW-7	TCL VOCs	Ground Water	10/1/2019	17:30	3	40 ml VOA	HCL, pH<2	N
	MW-8-001-01	MW-8	TCL VOCs	Ground Water	10/1/2019	13:15	3	40 ml VOA	HCL, pH<2	N
	RB-1-190930-01	N/A	TCL VOCs	DI Water	9/30/2019	16:00	3	40 ml VOA	HCL, pH<2	N
	RB-1-191001-01	N/A	TCL VOCs	DI Water	10/1/2019	17:30	3	40 ml VOA	HCL, pH<2	N
	RB-2-191001-01	N/A	TCL VOCs	DI Water	10/1/2019	17:52	3	40 ml VOA	HCL, pH<2	N
	RD-7-001-01	RD-7	TCL VOCs	Ground Water	9/30/2019	15:45	3	40 ml VOA	HCL, pH<2	N
	RD-8-001-01	RD-8	TCL VOCs	Ground Water	10/1/2019	13:50	3	40 ml VOA	HCL, pH<2	N

10/2/19

Special Instructions: Please email results to s.sumbaly@westonsolutions.com. Detection limit of 1.0 ppb per RFP#609.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All samples All analyses	Weston START V	10/2/19 1030		10-4-19 0955	3.3°C NO TAGS IR GUN #1 Custody seals intact Temp BK present

FedEx Express International Air Waybill

K5219

Origin Copy

FedEx Tracking Number 8147 6505 3248 0402 Form ID No.

1 From

Date 10/02/19 Sender's FedEx Account Number 402356103

Sender's Name Kathryn Dinchue Phone 7325704943

Company Weston Solutions, Inc.

Address 1090 King Georges Post Rd.

Address

City Edison State/Province NJ

Country U.S. ZIP/Postal Code 08837

Email Address kathryn.dinchue@westonsolutions.com

Internal Billing Reference 40200.011.082.1052

2 To

28 ☐ Residential Delivery

Recipient's Name Kurt Hunsicker Phone 908 789 8900

Company Envirotech Consulting Group

Address 284 Sheffield Street Dept/Floor

Address

City Mankinsuke State/Province NJ

Country U.S. ZIP/Postal Code 07092

Email Address

Recipient's Tax ID Number for Customs Purposes

3 Shipment Information

Total Packages Shipper's Load and Count/SLAC Total Weight lbs. ☐ kg ☐ DIM / / in. ☐ cm ☐

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Environmental water samples		USVI	

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: USD

Total Value for Customs (Specify Currency): $100

4 Express Package Service

NOTE: Service order has changed. Please select carefully.

06 ☐ FedEx Intl. First 01 ☒ FedEx Intl. Priority 03 ☐ FedEx Intl. Economy

5 Packaging

06 ☐ FedEx Envelope 02 ☐ FedEx Pak 03 ☐ FedEx Box 04 ☐ FedEx Tube

15 ☐ FedEx 10kg Box 25 ☐ FedEx 25kg Box 01 ☒ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

01 ☐ HOLD at FedEx Location 03 ☐ SATURDAY Delivery

10 ☐ Direct Signature Someone at recipient's address may sign for delivery.

34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries 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.

1 ☒ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check/Cheque

FedEx Acct. No. [redacted] Total Transportation

Credit Card Exp. Date Specify Currency

Bill duties and taxes to: Enter FedEx Acct. No. below.

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 5 ☐ Cash/Check/Cheque

FedEx Acct. No. 10/3/19 0855 3.3

8 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 or Montreal 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: Kathryn Dinchue

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature

662

Origin Station ID	Country Code/Destination Station ID	URSA Routing	Handling Units
EWR	KBCA	EWR KBCA	Total Volume (cm)

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☐ World Service Center 5 ☐ Station Forms Attached: ☐ CI ☐ CO

Base Charges FedEx Emp. # Declared Val. Chrg. Audit Emp. # Other ODA/OPA Date Credit Card Auth. Del. Courier Emp. # Time

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RRDA 02/19

PACKAGE LABEL — COMMERCIAL INVOICE LABEL — DELIVERY RECORD LABEL — DELIVERY REATTEMPT LABEL

8147650532 48 8147650532 48 8147650532 48

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K5219

4.

From: Sumbaly, Smita
To: s.chaim@chemtech.net
Subject: RE: k5219 - RFP 609
Date: Thursday, October 17, 2019 11:32:25 AM
Attachments: image002.jpg
image003.jpg

Steve - The airbill number on the COC was from the States. We had to use an international number after the coolers were already packed.

Smita
Smita Sumbaly
Chemist QA/QC Specialist
Weston Solutions, Inc.
1090 King Georges Post Road
Suite 201, Edison, NJ 08837
Phone: 732-585-4410
Fax: 732-225-7037



From: Steven Chaimowitz [mailto:S.Chaim@chemtech.net]
Sent: Thursday, October 17, 2019 11:11 AM
To: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Cc: kurt@chemtech.net
Subject: k5219 - RFP 609

**** External Email ****
Hi Smita,
Please see the attached. Please be advised that the air bill number on the COC does not match the actual air bill. Thank you.

Regards,

Steven Chaimowitz
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092
Direct: (908) 728-3147
s.chaim@chemtech.net | www.chemtech.net

Your Opinion Matters! Please Give Us Your Feedback

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Maine	2012025
Maryland	296
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : K5219 ROYF02 **Order Date :** 10/4/2019 11:10:55 AM **Project Mgr :** Tyler

Client Name : Weston Solutions, Inc. **Project Name :** RFP 609 **Report Type :** Level 4

Client Contact : Smita Sumbaly **Receive DateTime :** 10/4/2019 9:55:00 AM **EDD Type :** Equis Region2(MEDD)

Invoice Name : Weston Solutions, Inc. **Purchase Order :** **Hard Copy Date :**

Invoice Contact : Smita Sumbaly **Login Tech :** ankit **Date Signoff :** 10/4/2019 12:52:53 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
K5219-01	TB-191002-01	Water	10/02/2019	09:00						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-02	DW-2-001-01	Water	10/01/2019	10:30						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-03	MW-11D-001-01	Water	10/01/2019	10:00						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-04	MW-12D-001-01	Water	09/30/2019	13:50						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-05	MW-12D-001-01MS	Water	09/30/2019	13:50						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-06	MW-12D-001-01MSD	Water	09/30/2019	13:50						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-07	MW-12D-001-02	Water	09/30/2019	13:50						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-08	MW-2-001-01	Water	10/01/2019	17:34						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-09	MW-25-001-01	Water	10/01/2019	12:50						

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : K5219 ROYF02
Client Name : Weston Solutions, Inc.
Client Contact : Smita Sumbaly
Invoice Name : Weston Solutions, Inc.
Invoice Contact : Smita Sumbaly

Order Date : 10/4/2019 11:10:55 AM
Project Name : RFP 609
Receive DateTime : 10/4/2019 9:55:00 AM
Purchase Order :
Login Tech : ankit

Project Mgr : Tyler
Report Type : Level 4
EDD Type : Equis Region2(MEDD)
Hard Copy Date :
Date Signoff : 10/4/2019 12:52:53 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-10	MW-7-001-01	Water	10/01/2019	17:30						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-11	MW-8-001-01	Water	10/01/2019	13:15						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-12	RB-1-190930-01	Water	09/30/2019	16:00						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-13	RB-1-191001-01	Water	10/01/2019	17:30						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-14	RB-2-191001-01	Water	10/01/2019	17:52						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-15	RD-7-001-01	Water	09/30/2019	15:45						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-16	RD-8-001-01	Water	10/01/2019	13:50						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	
K5219-17	VHBLK01	Water	10/04/2019	09:55						
					VOC-Low Level -15		SOM02.4_Trace	5 Bus. Days	10/11/2019	

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

4.

Order ID :	K5219 ROYF02	**Order Date :**	10/4/2019 11:10:55 AM	**Project Mgr :**	Tyler
Client Name :	Weston Solutions, Inc.	**Project Name :**	RFP 609	**Report Type :**	Level 4
Client Contact :	Smita Sumbaly	**Receive DateTime :**	10/4/2019 9:55:00 AM	**EDD Type :**	Equis Region2(MEDD)
Invoice Name :	Weston Solutions, Inc.	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Smita Sumbaly	**Login Tech :**	ankit	**Date Signoff :**	10/4/2019 12:52:53 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinguished By : SC

Date / Time : 10.4.19 12:20

Received By :

Date / Time : 10.4.19 12'20

Storage Area : VOA Refridgerator Room

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page__of__
Received By (Print Name) George Negulas		Log-In Date **10/4/2019**
Received By (Signature)		
Case Number RFP 609	SDG No. K5219	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No.	776438606140
6. Sample Tags Sample Tag #	Absent Listed on Traffic Report
7. Sample Condition	Intact
8. Shipping Container Temperature Indicator Bottle	Present
9. Shipping Container Temperature	3.3 Degree C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/04/2019
12. Time Received	09:55

	EPA Sample #	Corresponding: Sample Tag #	Corresponding: Assigned Lab #	Remarks: Condition of Sample shipment, etc.
1	TB-191002-01		K5219-01	Intact
2	DW-2-001-01		K5219-02	Intact
3	MW-11D-001-01		K5219-03	Intact
4	MW-12D-001-01		K5219-04	Intact
5	MW-12D-001-01M		K5219-05	Intact
6	MW-12D-001-01M		K5219-06	Intact
7	MW-12D-001-02		K5219-07	Intact
8	MW-2-001-01		K5219-08	Intact
9	MW-25-001-01		K5219-09	Intact
10	MW-7-001-01		K5219-10	Intact
11	MW-8-001-01		K5219-11	Intact
12	RB-1-190930-01		K5219-12	Intact
13	RB-1-191001-01		K5219-13	Intact
14	RB-2-191001-01		K5219-14	Intact
15	RD-7-001-01		K5219-15	Intact
16	RD-8-001-01		K5219-16	Intact
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

* Contact SMO and attach record of resolution

Reviewed By SC	Logbook No.
Date 10.4.19	Logbook Page No.

SOM02.4 (10/2016) FORM DC-1

REGION II RST 3 DATA ASSESSMENT REPORT

SITE: TuTu Wellfield Site **SDG No.:** K5309

LAB: Chemtech Consulting Group, Inc., 284 Sheffield Street, Mountainside, New Jersey, 07092

ANALYSIS: Target Compound List (TCL) Volatile Organic Compounds (VOCs)

No. of Samples/Matrix: 10/Groundwater, 8/Rinsate Blank, 2/Trip Blanks

CONTRACTOR: Weston Solutions, Inc., Superfund Technical Assessment & Response Team V (START V)

The following table summarizes the analytical methods used for the requested analysis and the U.S. Environmental Protection Agency, Region II (EPA), data validation standard operating procedures (SOPs) used for data validation.

Analysis	Analytical Method	Data Validation SOP No.
VOCs	CLP SOW SOM02.4_Trace	No. HW-34A (Revision 1), September 2016

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various quality control (QC) problems some analytes may have been qualified with a "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: Smita Sumbaly **Date:** 11/13/2019

Verified By: **Date:** 11/13/19

From October 2 through 7, 2019, EPA Region II and START V sampling personnel collected 10 groundwater samples, including one field duplicate, eight rinsate blanks, and two trip blanks for trace TCL VOC analysis from the TuTu Wellfield Site located in Anna's Retreat, St. Thomas, U.S. Virgin Islands. Within 24 hours of sample collection, the samples were shipped via FedEx under Chain of Custody for the requested analysis to Chemtech Consulting Group, Inc. located at 284 Sheffield Street, Mountainside, New Jersey. The laboratory verified that samples were received intact, properly sealed, and refrigerated. Sample cooler temperatures measured 2.9 Degrees Celsius (°C).

Field Sample ID	Lab Sample ID	Matrix	Analysis	Sampling Date
SDG No.: K5309				
OU2-MW-6-001-01	K5309-01	Groundwater	TCL VOC	10/05/2019
RB-1-191002-01	K5309-02	Rinsate Blank	TCL VOC	10/02/2019
RB-1-191003-01	K5309-03	Rinsate Blank	TCL VOC	10/03/2019
RB-1-191004-01	K5309-04	Rinsate Blank	TCL VOC	10/04/2019
RB-1-191005-01	K5309-05	Rinsate Blank	TCL VOC	10/05/2019
RB-2-191002-01	K5309-06	Rinsate Blank	TCL VOC	10/02/2019
RB-2-191003-01	K5309-07	Rinsate Blank	TCL VOC	10/03/2019
RB-2-191004-01	K5309-08	Rinsate Blank	TCL VOC	10/04/2019
RB-2-191005-01	K5309-09	Rinsate Blank	TCL VOC	10/05/2019
RD-1-001-01	K5309-10	Groundwater	TCL VOC	10/02/2019
RD-13-001-01	K5309-11	Groundwater	TCL VOC	10/04/2019
RD-14-001-01	K5309-12	Groundwater	TCL VOC	10/03/2019
RD-2-001-01	K5309-13	Groundwater	TCL VOC	10/02/2019
RD-3-001-01	K5309-14	Groundwater	TCL VOC	10/02/2019
RD-4-001-01	K5309-15	Groundwater	TCL VOC	10/02/2019
RD-5-001-01	K5309-16	Groundwater	TCL VOC	10/03/2019
6-001-01RD-5	K5309-17	Groundwater	TCL VOC	10/02/2019
RD-9-001-01	K5309-18	Groundwater	TCL VOC	10/05/2019
TB-191007-01	K5309-19	Trip Blank	TCL VOC	10/07/2019
TB-2-191007-01	K5309-20	Trip Blank	TCL VOC	10/07/2019

The current SOP HW-34A (Revision 1) September 2016, USEPA Region II Data Validation SOP for Statement of Work SOM02.4 for evaluating Trace Volatile organic data has been applied.

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. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

2. DEUTERATED MONITORING COMPOUNDS (DMCs)
All samples are spiked with DMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured DMC recoveries were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

3. MATRIX SPIKE/ MATRIX SPIKE DUPLICATE (MS/MSD) RECOVERY:
MS/MSD data is generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data 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. Depending on the amount of contamination present in the QA blanks, the analytes are qualified as non-detects, "U". Qualifications were applied to the samples and analytes as shown below.

A) Method blank contamination:

No problems were found for this criterion.

B) Trip blanks contamination:

Chloromethane, chloroform, toluene, m,p-xylene, and styrene concentrations were less than (<) the contract required quantitation limit (CRQL); and acetone concentration was < 2 times (2x)

CRQL in trip blanks TB-191007-01 and TB-2-191007-01. Detected compounds are qualified U. Non-detected compounds are not qualified. Sample concentrations reported below CRQL have been elevated to the CRQL and sample concentration greater than (>) 2 x CRQL and < 4x CRQL have been reported as concentration of sample with a U.

Chloromethane – CRQL value with 'U' qualifier applied to samples OU2-MW-6-001-01, RD-1-001-01, RD-6-001-01, and RD-9-001-01

Toluene - CRQL value with 'U' qualifier applied to samples OU2-MW-6-001-01, RD-1-001-01, RD-14-001-01, RD-3-001-01, RD-4-001-01, and RD-9-001-01

Acetone - CRQL value with 'U' qualifier applied to samples RD-1-001-01, RD-2-001-01, RD-3-001-01, RD-4-001-01, RD-5-001-01, RD-6-001-01, and RD-9-001-01

Acetone – sample concentration with 'U' qualifier applied to sample OU2-MW-6-001-01

C) Rinsate blanks contamination:
Acetone, carbon disulfide, toluene, m,p-xylene, styrene, methylene chloride, 2-butanone, dibromochloromethane, and bromoform were detected at concentration less than CRQL in the rinsate blanks. Since, acetone and toluene were previously qualified due to trip blanks contamination, no further action was required. Carbon disulfide, m,p-xylene, styrene, 2-butanone, dibromochloromethane, and bromoform were not detected in samples associated with rinsate blanks, therefore, no further action was required. Since, benzene, toluene, o-xylene, m,p-xylene, styrene, and/or carbon disulfide samples results were non-detect in associated samples, no qualification was required. Sample concentrations reported below CRQL have been elevated to the CRQL.

Methylene Chloride – CRQL value with 'U' qualifier applied to sample RD-13-001-01

D) Storage Blank associated with VOA samples only:

No problems were found for this criterion.

E) Tentatively Identified Compounds:

No problems were found for this criterion.

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 Bromofluorobenzene (BFB). If the mass calibration is in error, all associated data will be classified as unusable "R". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

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 verifications (CCVs) 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 must be ≥ 0.05, and ≥ 0.01 for the poor performers in both the initial and opening continuing calibrations. For closing continuing calibration response factor for all target compounds must be ≥ 0.01. A value < 0.05 for target compounds 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 were found for this criterion.

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 CCV to the mean relative response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD and %D must meet criteria listed in Table 2 of SOP HW-34A. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J". Non-detects are flagged "UJ" for %D values outside criteria only. If %RSD exceeds QC criteria, non-detects may be qualified using professional judgement. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

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 be in the range of 60% - 140 % of the associated continuing calibration internal standard from the associated continuing calibration standard. If the area count is greater than 140%, all positive results quantitated using that IS are qualified as estimated "J-", and non-detects are not qualified. If the area count is less than 60% of the associated standard, all positive results for compounds quantitated with that IS are qualified as estimated "J+" and all non-detects are qualified "R".

If an internal standard retention time varies by more than 20 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

8. FIELD DUPLICATES:

This analysis measures both field and laboratory precision. A control limit of 20% for the Relative Percent Difference (RPD) will be used for original and duplicate sample values ≥ five times (5x) the Contract Required Quantitation Limit (CRQL). A control limit of the CRQL will be used if either the sample or duplicate value is < 5x the CRQL. For field duplicate analysis that does not meet the technical criteria, the action was applied to only the field sample and it's duplicate.

Not applicable

9. COMPOUND IDENTIFICATION:

Target 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 a window of 0.06 RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/z 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. Qualifications were applied to the samples and analytes as shown below.

For all TICs where there was a presumptive evidence of a match as compared to the reference spectra (>85% match), results were qualified as tentatively identified (NJ) with approximated concentrations. TICs identified and reported by the laboratory with a poor match compared to the reference spectra (<85% match) were changed to "Unknown" by the validator and results were qualified as estimated (J) (refer to qualified Form Is).

10. CONTRACT NON-COMPLIANCE:

No problems were identified.

11. FIELD DOCUMENTATION:

The Chain-of-Custody was reviewed; no problems were found.

12. OTHER PROBLEMS:

Tetrachloroethene concentration exceeded the calibration range in sample RD-5-001-01. Concentration of the tetrachloroethene was reported from the dilution analysis (RD-5-001-01DL).

Vinyl chloride concentration exceeded the calibration range in sample RD-9-001-01. The concentration of vinyl chloride was reported from the dilution analysis (RD-9-001-01DL).

Sample RD-13-001-01 was diluted 10x due to bad matrix.

13. DILUTIONS, RE-EXTRACTIONS & REANALYSIS:

Samples may be reanalyzed after dilution, re-extraction and for other QC reasons. In such cases, the best result values are consolidated in one single report and the other report is marked as not to be used. The following Form 1(s) are not used:

RD-5-001-01DL
RD-9-001-01DL

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 7, 2019

Matrix	Groundwater	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)
Field Sample ID	OU2-MW-6-001-01	RB-1-191002-01	RB-1-191003-01	RB-1-191004-01	RB-1-191005-01
Lab Sample ID	K5309-01	K5309-02	K5309-03	K5309-04	K5309-05
Dilution Factor	1	1	1	1	1
Volatile Organic Compounds (ug/L)					
Dichlorodifluoromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	**0.15 J**	0.50 U	0.50 U	**2.1**	0.50 U
Bromomethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	12 U	**4.6 J**	**7.8**	**3.8 J**	**4.0 J**
Carbon disulfide	0.50 U	**0.33 J**	0.50 U	**8.4**	0.50 U
Methyl Acetate	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	**0.15 J**	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl Ether	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	**15**	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	**1.7**	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	0.50 U	**0.53**	**0.48 J**	**0.58**	**0.43 J**
trans-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	**0.23 J**	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 7, 2019

Matrix	Groundwater	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)
Field Sample ID	OU2-MW-6-001-01	RB-1-191002-01	RB-1-191003-01	RB-1-191004-01	RB-1-191005-01
Lab Sample ID	K5309-01	K5309-02	K5309-03	K5309-04	K5309-05
Dilution Factor	1	1	1	1	1
Ethylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-xylene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m,p-xylene	0.50 U	**0.17 J**	**0.16 J**	**0.15 J**	**0.14 J**
Styrene	0.50 U	**0.17 J**	**0.17 J**	**0.14 J**	**0.17 J**
Bromoform	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

U - non-detected
J-: Estimated for low bias
Results reported to the Reporting Limit
Bolded result - Detected Value
ug/L - micrograms per Liter

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 7, 2019

Matrix	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)	Groundwater
Field Sample ID	RB-2-191002-01	RB-2-191003-01	RB-2-191004-01	RB-2-191005-01	RD-1-001-01
Lab Sample ID	K5309-06	K5309-07	K5309-08	K5309-09	K5309-10
Dilution Factor	1	1	1	1	1
Volatile Organic Compounds (ug/L)					
Dichlorodifluoromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	**5.7**	**8.2**	**24**	**7.3**	5.0 U
Carbon disulfide	0.50 U	**0.21 J**	0.50 U	0.50 U	0.50 U
Methyl Acetate	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	0.50 U	**0.14 J**	**0.23 J**	0.50 U	0.50 U
trans-1,2-Dichloroethene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl Ether	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	0.50 U	**0.29 J**	0.50 U	0.50 U	0.50 U
2-Butanone	5.0 U	5.0 U	**2.5 J**	5.0 U	5.0 U
Bromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	0.50 U	**0.38 J**	0.50 U	0.50 U	**0.14 J**
Methylcyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	**0.51**	**0.48 J**	**0.42 J**	**0.49 J**	0.50 U
trans-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	0.50 U	**13**	0.50 U	0.50 U	0.50 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	0.50 U	0.50 U	**0.88**	0.50 U	0.50 U
1,2-Dibromoethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 7, 2019

Matrix	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)	DI Water (Rinsate Blank)	Groundwater
Field Sample ID	RB-2-191002-01	RB-2-191003-01	RB-2-191004-01	RB-2-191005-01	RD-1-001-01
Lab Sample ID	K5309-06	K5309-07	K5309-08	K5309-09	K5309-10
Dilution Factor	1	1	1	1	1
Ethylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-xylene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m,p-xylene	0.50 U	0.50 U	0.50 U	**0.13 J**	0.50 U
Styrene	0.50 U	0.50 U	0.50 U	**0.13 J**	0.50 U
Bromoform	0.50 U	0.50 U	**8.0**	0.50 U	0.50 U
Isopropylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

U - non-detected
J-: Estimated for low bias
Results reported to the Reporting Limit
Bolded result - Detected Value
ug/L - micrograms per Liter

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 7, 2019

Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Field Sample ID	RD-13-001-01	RD-14-001-01	RD-2-001-01	RD-3-001-01	RD-4-001-01
Lab Sample ID	K5309-11	K5309-12	K5309-13	K5309-14	K5309-15
Dilution Factor	10	1	1	1	1
Volatile Organic Compounds (ug/L)					
Dichlorodifluoromethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	**6.0**	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	5.0 U	**0.43 J**	0.50 U	0.50 U	**0.13 J**
Methyl Acetate	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	**130**	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl Ether	5.0 U	**0.32 J**	0.50 U	**0.54**	0.50 U
1,1-Dichloroethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	**7.4**	**0.98**	0.50 U	**1.5**	**0.40 J**
2-Butanone	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	**5.1**	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	**1.6 J**	**0.22 J**	0.50 U	0.50 U	0.50 U
Methylcyclohexane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	**2.6 J**	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 7, 2019

Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Field Sample ID	RD-13-001-01	RD-14-001-01	RD-2-001-01	RD-3-001-01	RD-4-001-01
Lab Sample ID	K5309-11	K5309-12	K5309-13	K5309-14	K5309-15
Dilution Factor	10	1	1	1	1
Ethylbenzene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
o-xylene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
m,p-xylene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	5.0 U	0.50 U	0.50 U	0.50 U	0.50 U

U - non-detected
J-: Estimated for low bias
Results reported to the Reporting Limit
Bolded result - Detected Value
ug/L - micrograms per Liter

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 7, 2019

Matrix	Groundwater	Groundwater	Groundwater	DI Water (Trip Blank)	DI Water (Trip Blank)
Field Sample ID	RD-5-001-01	RD-6-001-01	RD-9-001-01	TB-191007-01	TB-2-191007-01
Lab Sample ID	K5309-16	K5309-17	K5309-18	K5309-19	K5309-20
Dilution Factor	1, *5	1	1, *4	1	
Volatile Organic Compounds (ug/L)					
Dichlorodifluoromethane	0.50 U	**1.3**	0.50 U	0.50 U	0.50 U
Chloromethane	0.50 U	0.50 U	0.50 U	**0.40 J**	**0.27 J**
Vinyl chloride	0.50 U	0.50 U	***24**	0.50 U	0.50 U
Bromomethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	0.50 U	0.50 U	**0.52**	0.50 U	0.50 U
Trichlorofluoromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	5.0 U	5.0 U	5.0 U	**7.0**	**6.2**
Carbon disulfide	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	**0.18 J**	0.50 U	**17**	0.50 U	0.50 U
Methyl tert-butyl Ether	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	**8.3**	**2.7**	**6.5**	0.50 U	0.50 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	0.50 U	0.50 U	0.50 U	**0.36 J**	**0.46 J**
1,1,1-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	**3.3**	**2.0**	0.50 U	0.50 U	0.50 U
Methylcyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	0.50 U	0.50 U	0.50 U	**0.44 J**	**0.45 J**
trans-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	***44**	**0.99**	0.50 U	0.50 U	0.50 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	0.50 U	0.50 U	**0.98**	0.50 U	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 7, 2019

Matrix	Groundwater	Groundwater	Groundwater	DI Water (Trip Blank)	DI Water (Trip Blank)
Field Sample ID	RD-5-001-01	RD-6-001-01	RD-9-001-01	TB-191007-01	TB-2-191007-01
Lab Sample ID	K5309-16	K5309-17	K5309-18	K5309-19	K5309-20
Dilution Factor	1, *5	1	1, *4	1	
Ethylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-xylene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m,p-xylene	0.50 U	0.50 U	0.50 U	**0.17 J**	**0.15 J**
Styrene	0.50 U	0.50 U	0.50 U	**0.18 J**	**0.18 J**
Bromoform	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

U - non-detected
J-: Estimated for low bias
Results reported to the Reporting Limit
Bolded result - Detected Value
ug/L - micrograms per Liter

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : K5309

Project ID : RFP 609

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
K5309-01	OU2-MW-6-001-01
K5309-02	RB-1-191002-01
K5309-03	RB-1-191003-01
K5309-04	RB-1-191004-01
K5309-05	RB-1-191005-01
K5309-06	RB-2-191002-01
K5309-07	RB-2-191003-01
K5309-08	RB-2-191004-01
K5309-09	RB-2-191005-01
K5309-10	RD-1-001-01
K5309-11	RD-13-001-01
K5309-12	RD-14-001-01
K5309-13	RD-2-001-01
K5309-14	RD-3-001-01
K5309-15	RD-4-001-01
K5309-16	RD-5-001-01
K5309-17	RD-6-001-01
K5309-18	RD-9-001-01
K5309-19	TB-191007-01
K5309-20	TB-2-191007-01
K5309-21	VHBLK01

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

By Nimisha Pandya, QA QC Supervisor at 4:07 pm, Oct 24, 2019

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 609
Project # N/A
Chemtech Project # K5309
Test Name: VOC-Low Level -15

A. Number of Samples and Date of Receipt:
21 Water samples were received on 10/10/2019.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-Low Level -15. This data package contains results for VOC-Low Level -15.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_U were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-Low Level -15 was based on method SOM02.4_Trace.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The storage blank did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

Samples RD-13-001-01 was diluted due to bad matrix.
Samples RD-5-001-01 and RD-9-001-01 were diluted due to high concentrations.

Calculation:

$$\text{Concentration in ug/L} = \frac{(Ax)\,(Is)\,(DF)}{(Ais)\,(RRF)\,(Vo)}$$

Where,

Ax = Area of the characteristic ion (EICP) for the compound to be measured.
Ais = Area of the characteristic ion (EICP) for the internal standard.

Is = Amount of internal standard added in ng.
RRF = Mean Relative Response Factor from the initial calibration standard.
Vo = Total volume of water purged, in mL.
DF = Dilution Factor.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature N. N. Pandya

APPROVED
By Nimisha Pandya, QA QC Supervisor at 4:08 pm, Oct 24, 2019

SAMPLE DATA

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-6-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035098.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	~~0.16~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	0.15	J
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	12	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.15	J
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	15	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.7	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-6-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035098.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	~~0.23~~ 0.50	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.23	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

10/29/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-6-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035098.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
OU2-MW-6-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-01
Lab File ID : VU035098.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/11/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191002-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035092.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	4.6	J
75-15-0	Carbon disulfide	0.33	J
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191002-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035092.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.53	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.17	J
100-42-5	Styrene	0.17	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191002-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035092.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB-1-191002-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-02
Lab File ID : VU035092.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/11/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191003-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035093.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	7.8	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191003-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035093.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.48	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.16	J
100-42-5	Styrene	0.17	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191003-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035093.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB-1-191003-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-03
Lab File ID : VU035093.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/11/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191004-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-04
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035094.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	2.1	
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	3.8	J
75-15-0	Carbon disulfide	8.4	
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191004-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-04
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035094.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.58	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.15	J
100-42-5	Styrene	0.14	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191004-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-04
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035094.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB-1-191004-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-04
Lab File ID : VU035094.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/11/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1		unknown-01	7.21	1.4	J
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191005-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-05
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035095.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	4.0	J
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191005-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-05
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035095.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.43	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.14	J
100-42-5	Styrene	0.17	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-1-191005-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-05
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035095.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB-1-191005-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-05
Lab File ID : VU035095.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/11/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191002-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035096.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.7	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191002-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035096.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.51	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191002-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035096.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB-2-191002-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-06
Lab File ID : VU035096.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/11/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191003-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035117.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	8.2	
75-15-0	Carbon disulfide	0.21	J
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.14	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.29	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.38	J

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191003-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035117.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.48	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	13	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191003-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035117.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB-2-191003-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-07
Lab File ID : VU035117.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/12/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1		unknown-01	8.46	0.58	J
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191004-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035097.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	24	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.23	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	2.5	J
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191004-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035097.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.42	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.88	
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	8.0	
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191004-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035097.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB-2-191004-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-08
Lab File ID : VU035097.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/11/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191005-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035118.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	7.3	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191005-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035118.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.49	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.13	J
100-42-5	Styrene	0.13	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RB-2-191005-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035118.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RB-2-191005-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-09
Lab File ID : VU035118.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/12/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-1-001-01

3
2.1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : _____ SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-10
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035124.D
% Solids : _____
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted : _____
GC Column : _____ ID : _____ (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N) _____
Extract Volume : _____ (µL)
Soil Aliquot (VOA) : _____ (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : _____ (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types : _____
Cleanup Factor : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	~~0.32~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~4.6~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.14	J

10/29/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-1-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-10
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035124.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	~~0.18~~ 0.50	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-1-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-10
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035124.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-1-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-10
Lab File ID : VU035124.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/12/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-13-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-11
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035108.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 10.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	6.0	
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl Acetate	5.0	U
75-09-2	Methylene chloride	~~1.9~~ 5.0	~~J~~ U
156-60-5	trans-1,2-Dichloroethene	130	
1634-04-4	Methyl tert-butyl Ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	7.4	
78-93-3	2-Butanone	50	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.1	
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	1.6	J

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-13-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-11
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035108.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 10.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	2.6	J
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-trichlorobenzene	5.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-13-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-11
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035108.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 10.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	5.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-13-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-11
Lab File ID : VU035108.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/11/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 10.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-14-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035125.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.43	J
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.32	J
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.98	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.22	J

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-14-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035125.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	~~0.10~~ 0.50	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-14-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035125.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-14-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-12
Lab File ID : VU035125.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/12/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035126.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.5~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035126.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035126.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-2-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-13
Lab File ID : VU035126.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/12/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
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TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-3-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035127.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~2.5~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.54	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.5	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
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TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-3-001-01

3
2.1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035127.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	~~0.16~~ 0.50	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-3-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035127.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-3-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-14
Lab File ID : VU035127.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/12/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	~~007446-09-5~~	~~Sulfur dioxide~~ Unknown	1.32	11	JN
2	E966796	Total Alkanes	N/A	0.0	

10/21/19 ES

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-4-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-15
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035128.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~3.3~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.13	J
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.40	J
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-4-001-01

3
2.1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-15
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035128.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	~~0.12~~ 0.50	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-4-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-15
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035128.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-4-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-15
Lab File ID : VU035128.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/12/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	007446-09-5	Sulfur dioxide	1.28	4.3	JN
2	E966796	Total Alkanes	N/A	0.0	

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EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-5-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-16
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035129.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.6~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.18	J
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	8.3	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	3.3	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-5-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-16
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035129.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	~~49~~ *44	~~E~~
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

* 5xDIF - Value transferred from the dilution analysis. 10/29/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-5-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-16
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035129.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-5-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-16
Lab File ID : VU035129.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/12/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	007446-09-5	Sulfur dioxide	1.29	1.1	JN
2	~~001717-00-6~~	1,1-Dichloro-1-fluoroethane Unknown	2.07	1.7	JN
3	E966796	Total Alkanes	N/A	0.0	

10/29/19

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-5-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-16DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035159.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	2.5	U
74-87-3	Chloromethane	2.5	U
75-01-4	Vinyl chloride	2.5	U
74-83-9	Bromomethane	2.5	U
75-00-3	Chloroethane	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U
67-64-1	Acetone	25	U
75-15-0	Carbon disulfide	2.5	U
79-20-9	Methyl Acetate	2.5	U
75-09-2	Methylene chloride	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
1634-04-4	Methyl tert-butyl Ether	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
156-59-2	cis-1,2-Dichloroethene	8.3	D
78-93-3	2-Butanone	25	U
74-97-5	Bromochloromethane	2.5	U
67-66-3	Chloroform	2.5	U
71-55-6	1,1,1-Trichloroethane	2.5	U
110-82-7	Cyclohexane	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
71-43-2	Benzene	2.5	U
107-06-2	1,2-Dichloroethane	2.5	U
79-01-6	Trichloroethene	3.3	D

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-5-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-16DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035159.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	2.5	U
78-87-5	1,2-Dichloropropane	2.5	U
75-27-4	Bromodichloromethane	2.5	U
10061-01-5	cis-1,3-Dichloropropene	2.5	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U
127-18-4	Tetrachloroethene	44	D
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
108-90-7	Chlorobenzene	2.5	U
100-41-4	Ethylbenzene	2.5	U
95-47-6	o-Xylene	2.5	U
179601-23-1	m,p-Xylene	2.5	U
100-42-5	Styrene	2.5	U
75-25-2	Bromoform	2.5	U
98-82-8	Isopropylbenzene	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U
120-82-1	1,2,4-trichlorobenzene	2.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-5-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-16DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035159.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	2.5	U

Do not use this Form 1

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-5-001-01DL

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-16DL
Lab File ID : VU035159.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/14/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

Do not use this Form 1

EPA-designated Registry Number.

10/29/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-6-001-01

3
2.1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-17
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035144.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	1.3	
74-87-3	Chloromethane	~~0.13~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~2.8~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	2.7	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	2.0	

10/29/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-6-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-17
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035144.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.99	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-6-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-17
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035144.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-6-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-17
Lab File ID : VU035144.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/14/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-9-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-18
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035145.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	~~0.15~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	~~26~~ *24	~~E~~
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.52	
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~2.1~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	17	
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	6.5	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

* %DIF value transferred from the dilution analysis. 10/29/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-9-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-18
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035145.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	~~0.19~~ 0.50	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.98	
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-9-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-18
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035145.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-9-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-18
Lab File ID : VU035145.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/14/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000075-37-6	Ethane, 1,1-difluoro-	1.17	72	JN
2	000110-81-6	Diethyl disulfide	10.23	2.7	JN
3		unknown-01	13.05	1.1	J
4	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-9-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-18DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035158.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 4.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	2.0	U
74-87-3	Chloromethane	2.0	U
75-01-4	Vinyl chloride	24	D
74-83-9	Bromomethane	2.0	U
75-00-3	Chloroethane	0.38	JD
75-69-4	Trichlorofluoromethane	2.0	U
75-35-4	1,1-Dichloroethene	2.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U
67-64-1	Acetone	4.6	JD
75-15-0	Carbon disulfide	2.0	U
79-20-9	Methyl Acetate	2.0	U
75-09-2	Methylene chloride	2.0	U
156-60-5	trans-1,2-Dichloroethene	16	D
1634-04-4	Methyl tert-butyl Ether	2.0	U
75-34-3	1,1-Dichloroethane	2.0	U
156-59-2	cis-1,2-Dichloroethene	4.4	D
78-93-3	2-Butanone	20	U
74-97-5	Bromochloromethane	2.0	U
67-66-3	Chloroform	2.0	U
71-55-6	1,1,1-Trichloroethane	2.0	U
110-82-7	Cyclohexane	2.0	U
56-23-5	Carbon tetrachloride	2.0	U
71-43-2	Benzene	2.0	U
107-06-2	1,2-Dichloroethane	2.0	U
79-01-6	Trichloroethene	2.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-9-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-18DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035158.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 4.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	2.0	U
78-87-5	1,2-Dichloropropane	2.0	U
75-27-4	Bromodichloromethane	2.0	U
10061-01-5	cis-1,3-Dichloropropene	2.0	U
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	2.0	U
10061-02-6	trans-1,3-Dichloropropene	2.0	U
79-00-5	1,1,2-Trichloroethane	2.0	U
127-18-4	Tetrachloroethene	2.0	U
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	2.0	U
106-93-4	1,2-Dibromoethane	2.0	U
108-90-7	Chlorobenzene	0.86	JD
100-41-4	Ethylbenzene	2.0	U
95-47-6	o-Xylene	2.0	U
179601-23-1	m,p-Xylene	2.0	U
100-42-5	Styrene	2.0	U
75-25-2	Bromoform	2.0	U
98-82-8	Isopropylbenzene	2.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U
541-73-1	1,3-Dichlorobenzene	2.0	U
106-46-7	1,4-Dichlorobenzene	2.0	U
95-50-1	1,2-Dichlorobenzene	2.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U
120-82-1	1,2,4-trichlorobenzene	2.0	U

Do not use this form

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
RD-9-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-18DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035158.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 4.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	2.0	U

Do not use this form

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
RD-9-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-18DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035158.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/14/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 4.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000075-37-6	Ethane, 1,1-difluoro-	1.18	65	JND
2	E966796	Total Alkanes	N/A	0.0	

Do not use this form

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
TB-191007-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-19
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035119.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.40	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	7.0	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.36	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
TB-191007-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-19
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035119.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.44	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.17	J
100-42-5	Styrene	0.18	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
TB-191007-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-19
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035119.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TB-191007-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-19
Lab File ID : VU035119.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/12/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
TB-2-191007-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-20
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035120.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.27	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	6.2	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.46	J
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
TB-2-191007-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-20
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035120.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.45	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.15	J
100-42-5	Styrene	0.18	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
TB-2-191007-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-20
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035120.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TB-2-191007-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5309
Level :
Lab Sample ID : K5309-20
Lab File ID : VU035120.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/12/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-21
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035182.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/15/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-21
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035182.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/15/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-21
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035182.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/15/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5309
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5309-21
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035182.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/15/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	K5309	**OrderDate:**	10/10/2019 9:57:00 AM
Client:	Weston Solutions, Inc.	**Project:**	RFP 609
Contact:	Smita Sumbaly	**Location:**	

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
K5309-01	**OU2-MW-6-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/05/19**		10/11/19	**10/10/19**
K5309-02	**RB-1-191002-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/02/19**		10/11/19	**10/10/19**
K5309-03	**RB-1-191003-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/03/19**		10/11/19	**10/10/19**
K5309-04	**RB-1-191004-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/04/19**		10/11/19	**10/10/19**
K5309-05	**RB-1-191005-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/05/19**		10/11/19	**10/10/19**
K5309-06	**RB-2-191002-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/02/19**		10/11/19	**10/10/19**
K5309-07	**RB-2-191003-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/03/19**		10/12/19	**10/10/19**
K5309-08	**RB-2-191004-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/04/19**		10/11/19	**10/10/19**
K5309-09	**RB-2-191005-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/05/19**		10/12/19	**10/10/19**

LAB CHRONICLE

K5309-10	**RD-1-001-01**	**Water**			**10/02/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/12/19	
K5309-11	**RD-13-001-01**	**Water**			**10/04/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/11/19	
K5309-12	**RD-14-001-01**	**Water**			**10/03/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/12/19	
K5309-13	**RD-2-001-01**	**Water**			**10/02/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/12/19	
K5309-14	**RD-3-001-01**	**Water**			**10/02/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/12/19	
K5309-15	**RD-4-001-01**	**Water**			**10/02/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/12/19	
K5309-16	**RD-5-001-01**	**Water**			**10/03/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/12/19	
K5309-16DL	**RD-5-001-01DL**	**Water**			**10/03/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/14/19	
K5309-17	**RD-6-001-01**	**Water**			**10/02/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/14/19	
K5309-18	**RD-9-001-01**	**Water**			**10/05/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/14/19	
K5309-18DL	**RD-9-001-01DL**	**Water**			**10/05/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/14/19	

LAB CHRONICLE

K5309-19	**TB-191007-01**	**Water**			**10/07/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/12/19	
K5309-20	**TB-2-191007-01**	**Water**			**10/07/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/12/19	
K5309-21	**VHBLK01**	**Water**			**10/10/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/15/19	

SHIPPING DOCUMENTS

K5309

4

2.1

USEPA
DateShipped: 10/7/2019
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 021D
Contact Name: Joel Siegel
Contact Phone: 732-570-5022

No: 2-100719-0032-0052-0001
Lab: Chemtech Consulting Group
Lab Address: 284 Sheffield Street
Lab Phone: 908-789-8900

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	OU2-MW-6-001-01	OU2-MW-6	TCL VOCs	Ground Water	10/5/2019	09:30	3	40 ml VOA	HCL, pH<2	N
	RB-1-191002-01	N/A	TCL VOCs	DI Water	10/2/2019	16:45	3	40 ml VOA	HCL, pH<2	N
	RB-1-191003-01	N/A	TCL VOCs	DI Water	10/3/2019	16:05	3	40 ml VOA	HCL, pH<2	N
	RB-1-191004-01	N/A	TCL VOCs	DI Water	10/4/2019	16:30	3	40 ml VOA	HCL, pH<2	N
	RB-1-191005-01	N/A	TCL VOCs	DI Water	10/5/2019	10:06	3	40 ml VOA	HCL, pH<2	N
	RB-2-191002-01	N/A	TCL VOCs	DI Water	10/2/2019	17:30	3	40 ml VOA	HCL, pH<2	N
	RB-2-191003-01	N/A	TCL VOCs	DI Water	10/3/2019	17:25	3	40 ml VOA	HCL, pH<2	N
	RB-2-191004-01	N/A	TCL VOCs	DI Water	10/4/2019	16:57	3	40 ml VOA	HCL, pH<2	N
	RB-2-191005-01	N/A	TCL VOCs	DI Water	10/5/2019	11:30	3	40 ml VOA	HCL, pH<2	N
	RD-1-001-01	RD-1	TCL VOCs	Ground Water	10/2/2019	14:25	3	40 ml VOA	HCL, pH<2	N
	RD-13-001-01	RD-13	TCL VOCs	Ground Water	10/4/2019	15:18	3	40 ml VOA	HCL, pH<2	N
	RD-14-001-01	RD-14	TCL VOCs	Ground Water	10/3/2019	09:40	3	40 ml VOA	HCL, pH<2	N
	RD-2-001-01	RD-2	TCL VOCs	Ground Water	10/2/2019	10:00	3	40 ml VOA	HCL, pH<2	N
	RD-3-001-01	RD-3	TCL VOCs	Ground Water	10/2/2019	11:23	3	40 ml VOA	HCL, pH<2	N
	RD-4-001-01	RD-4	TCL VOCs	Ground Water	10/2/2019	16:00	3	40 ml VOA	HCL, pH<2	N
	RD-5-001-01	RD-5	TCL VOCs	Ground Water	10/3/2019	15:55	3	40 ml VOA	HCL, pH<2	N
	RD-6-001-01	RD-6	TCL VOCs	Ground Water	10/2/2019	09:15	3	40 ml VOA	HCL, pH<2	N
	RD-9-001-01	RD-9	TCL VOCs	Ground Water	10/5/2019	10:49	3	40 ml VOA	HCL, pH<2	N
	TB-191007-01	N/A	TCL VOCs	DI Water	10/7/2019	09:00	3	40 ml VOA	HCL, pH<2	N

Special Instructions: Please email results to s.sumbaly@westonsolutions.com. Detection limit of 1.0 ppb per RFP #609. Small bubbles were noticed at time of collection in samples IW-2-001-01 and RD-14-001-01 due to effervescence with HCL.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Analysis	[signature]	10/9/19 16:00	[signature]	10-10-19 0915	2.9°C NO TAGS IR GUN #1 custody seals intact Temp BLK. present

K5309

4

2.1

USEPA
DateShipped: 10/7/2019
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 021D
Contact Name: Joel Siegel
Contact Phone: 732-570-5022

No: 2-100719-0032-0052-0001
Lab: Chemtech Consulting Group
Lab Address: 284 Sheffield Street
Lab Phone: 908-789-8900

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	TB-2-191007-01	N/A	TCL VOCs	DI Water	10/7/2019	09:05	3	40 ml VOA	HCL, pH<2	N

Special Instructions: Please email results to s.sumbaly@westonsolutions.com. Detection limit of 1.0 ppb per RFP #609. Small bubbles were noticed at time of collection in samples IW-2-001-01 and RD-14-001-01 due to effervescence with HCL.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Samples	[signature] Weston	10/9/19 1200	[signature]	10-10-19 0915	2.9°C NO TAGS IR GUN #1 custody seals intact Temp BK. present

K5309
K5310
K5311

FedEx Express International Air Waybill

Origin Copy 4

FedEx Tracking Number 8147 6505 3605 0402 Form ID No.

1 From

Date 10/7/ Sender's FedEx Account Number

Sender's Name Phone

Company

Address

Address

City State Province

Country ZIP Postal Code

Email Address

Internal Billing Reference

2 To

28 ☐ Residential Delivery

Recipient's Name Phone

Company

Address Dept/Floor

Address

City State Province

Country ZIP Postal Code

Email Address

Recipient's Tax ID Number for Customs Purposes

3 Shipment Information

Total Packages Shipper's Load and Count/SLAC Total Weight lbs. ☐ kg ☐ DIM / / in. ☐ cm ☐

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs

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 exception 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)

FedEx Tracking Number 8147 6505 3605 0402 Form ID No.

4 Express Package Service

NOTE: Service order has changed. Please select carefully.

06 ☐ FedEx Intl. First 01 ☐ FedEx Intl. Priority 03 ☐ FedEx Intl Economy

5 Packaging

06 ☐ FedEx Envelope 02 ☐ FedEx Pak 03 ☐ FedEx Box 04 ☐ FedEx Tube

15 ☐ FedEx 10kg Box 25 ☐ FedEx 25kg Box 01 ☐ Other

6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

01 ☐ HOLD at FedEx Location 03 ☐ SATURDAY Delivery

10 ☐ Direct Signature Someone at recipient's address may sign for delivery.

34 ☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries 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.

1 ☐ Sender Acct. No. in Section 1 will be billed 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash Check/Cheque

Total Transportation

FedEx Acct. No.

Credit Card Exp. Date

Specify Currency

Bill duties and taxes to:

Enter FedEx Acct. No. below.

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 5 ☐ Cash Check/Cheque

FedEx Acct. No.

10/10/19 0915 Z-9-C

8 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 or Montreal 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:

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature

662

Origin Station ID	Country Code/Destination Station ID	URSA Routing	Handling Units
	KRCA	KF-KLAX	Total Volume (cm)

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☐ World Service Center 5 ☐ Station

Forms Attached: ☐ CI ☐ CO

Base Charges Declared Val. Chrg. Other COA/ OPA Credit Card Auth.

FedEx Emp. # Audit Emp. # Date 10 Del. Courier Emp. # Time Date Time

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8147650536O5

8147650536O5

RRDA 02/19

From: Steven Chaimowitz <S.Chaim@chemtech.net>
Sent: Thursday, October 10, 2019 9:59 AM
To: Samantha@chemtech.net
Subject: FW: RFP 609

Please save in PM folder for Weston projects

From: Donohue, Kathryn [mailto:Kathryn.Donohue@WestonSolutions.com]
Sent: Thursday, October 10, 2019 9:59 AM
To: s.chaim@chemtech.net
Cc: kurt@chemtech.net; Siegel, Joel <Joel.Siegel@WestonSolutions.com>
Subject: RE: RFP 609

These are a part of RFP#609 and the last samples that you will receive. Thank you.

From: Steven Chaimowitz [mailto:S.Chaim@chemtech.net]
Sent: Thursday, October 10, 2019 9:54 AM
To: joel.siegel@wstonsolution.com
Cc: Donohue, Kathryn <Kathryn.Donohue@WestonSolutions.com>; kurt@chemtech.net
Subject: RFP 609

**** External Email ****
Good Morning,
Please see the attached. Please confirm the COCs are part of project RFP 609. Thank you.

Regards,

Steven Chaimowitz
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092
Direct: (908) 728-3147
s.chaim@chemtech.net | www.chemtech.net

Your Opinion Matters! Please Give Us Your Feedback



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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Maine	2012025
Maryland	296
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : K5309 ROYF02 **Order Date :** 10/10/2019 9:57:00 AM **Project Mgr :**
Client Name : Weston Solutions, Inc. **Project Name :** RFP 609 **Report Type :** Level 4
Client Contact : Smita Sumbaly **Receive DateTime :** 10/10/2019 9:15:00 AM **EDD Type :** Equis Region2(MEDD)
Invoice Name : Weston Solutions, Inc. **Purchase Order :** **Hard Copy Date :**
Invoice Contact : Smita Sumbaly **Login Tech :** ankit **Date Signoff :**

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
K5309-01	OU2-MW-6-001-01	Water	10/05/2019	09:30					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5309-02	RB-1-191002-01	Water	10/02/2019	16:45					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5309-03	RB-1-191003-01	Water	10/03/2019	16:05					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5309-04	RB-1-191004-01	Water	10/04/2019	16:30					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5309-05	RB-1-191005-01	Water	10/05/2019	10:06					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5309-06	RB-2-191002-01	Water	10/02/2019	17:30					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5309-07	RB-2-191003-01	Water	10/03/2019	17:25					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5309-08	RB-2-191004-01	Water	10/04/2019	16:57					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5309-09	RB-2-191005-01	Water	10/05/2019	11:30					

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID : K5309 ROYF02 **Order Date :** 10/10/2019 9:57:00 AM **Project Mgr :**
Client Name : Weston Solutions, Inc. **Project Name :** RFP 609 **Report Type :** Level 4
Client Contact : Smita Sumbaly **Receive DateTime :** 10/10/2019 9:15:00 AM **EDD Type :** Equis Region2(MEDD)
Invoice Name : Weston Solutions, Inc. **Purchase Order :** **Hard Copy Date :**
Invoice Contact : Smita Sumbaly **Login Tech :** ankit **Date Signoff :**

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-Low Level -15		SOM02.4_Trace 5 Bus. Days		
K5309-10	RD-1-001-01	Water	10/02/2019	14:25					
					VOC-Low Level -15		SOM02.4_Trace 5 Bus. Days		
K5309-11	RD-13-001-01	Water	10/04/2019	15:18					
					VOC-Low Level -15		SOM02.4_Trace 5 Bus. Days		
K5309-12	RD-14-001-01	Water	10/03/2019	09:40					
					VOC-Low Level -15		SOM02.4_Trace 5 Bus. Days		
K5309-13	RD-2-001-01	Water	10/02/2019	10:00					
					VOC-Low Level -15		SOM02.4_Trace 5 Bus. Days		
K5309-14	RD-3-001-01	Water	10/02/2019	11:23					
					VOC-Low Level -15		SOM02.4_Trace 5 Bus. Days		
K5309-15	RD-4-001-01	Water	10/02/2019	16:00					
					VOC-Low Level -15		SOM02.4_Trace 5 Bus. Days		
K5309-16	RD-5-001-01	Water	10/03/2019	15:55					
					VOC-Low Level -15		SOM02.4_Trace 5 Bus. Days		
K5309-17	RD-6-001-01	Water	10/02/2019	09:15					
					VOC-Low Level -15		SOM02.4_Trace 5 Bus. Days		

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	K5309 ROYF02	**Order Date :**	10/10/2019 9:57:00 AM	**Project Mgr :**	
Client Name :	Weston Solutions, Inc.	**Project Name :**	RFP 609	**Report Type :**	Level 4
Client Contact :	Smita Sumbaly	**Receive DateTime :**	10/10/2019 9:15:00 AM	**EDD Type :**	Equis Region2(MEDD)
Invoice Name :	Weston Solutions, Inc.	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Smita Sumbaly	**Login Tech :**	ankit	**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
K5309-18	RD-9-001-01	Water	10/05/2019	10:49					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5309-19	TB-191007-01	Water	10/07/2019	09:00					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5309-20	TB-2-191007-01	Water	10/07/2019	09:05					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5309-21	VHBLK01	Water	10/10/2019	09:15					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days

Relinguished By : _____
Date / Time : 10/10/19 1230

Received By : _____
Date / Time : 10/10/19 1230

Storage Area : VOA Refridgerator Room

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page__of__
Received By (Print Name) Cassandra Rios		Log-in Date 10/10/2019
Received By (Signature)		
Case Number RFP 609	SDG No. K5309	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No.	8147650536050402
6. Sample Tags Sample Tag #	Absent Listed on Traffic Report
7. Sample Condition	Intact
8. Shipping Container Temperature Indicator Bottle	Present
9. Shipping Container Temperature	2.9 Degree C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/10/2019
12.Time Received	09:15

	EPA Sample #	Corresponding: Sample Tag #	Corresponding: Assigned Lab #	Remarks: Condition of Sample shipment, etc.
1	OU2-MW-6-001-01		K5309-01	Intact
2	RB-1-191002-01		K5309-02	Intact
3	RB-1-191003-01		K5309-03	Intact
4	RB-1-191004-01		K5309-04	Intact
5	RB-1-191005-01		K5309-05	Intact
6	RB-2-191002-01		K5309-06	Intact
7	RB-2-191003-01		K5309-07	Intact
8	RB-2-191004-01		K5309-08	Intact
9	RB-2-191005-01		K5309-09	Intact
10	RD-1-001-01		K5309-10	Intact
11	RD-13-001-01		K5309-11	Intact
12	RD-14-001-01		K5309-12	Intact
13	RD-2-001-01		K5309-13	Intact
14	RD-3-001-01		K5309-14	Intact
15	RD-4-001-01		K5309-15	Intact
16	RD-5-001-01		K5309-16	Intact
17	RD-6-001-01		K5309-17	Intact
18	RD-9-001-01		K5309-18	Intact
19	TB-191007-01		K5309-19	Intact
20	TB-2-191007-01		K5309-20	Intact
21				
22				
23				
24				
25				
26				

* Contact SMO and attach record of resolution

Reviewed By SC	Logbook No.
Date 10.10.19	Logbook Page No.

SOM02.4 (10/2016) FORM DC-1

REGION II RST 3 DATA ASSESSMENT REPORT

SITE: TuTu Wellfield Site **SDG No.:** K5310

LAB: Chemtech Consulting Group, Inc., 284 Sheffield Street, Mountainside, New Jersey, 07092

ANALYSIS: Target Compound List (TCL) Volatile Organic Compounds (VOCs)

No. of Samples/Matrix: 19/Groundwater

CONTRACTOR: Weston Solutions, Inc., Superfund Technical Assessment & Response Team V (START V)

The following table summarizes the analytical methods used for the requested analysis and the U.S. Environmental Protection Agency, Region II (EPA), data validation standard operating procedures (SOPs) used for data validation.

Analysis	Analytical Method	Data Validation SOP No.
VOCs	CLP SOW SOM02.4_Trace	No. HW-34A (Revision 1), September 2016

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various quality control (QC) problems some analytes may have been qualified with a "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: Smita Sumbaly **Date:** 11/13/2019

Verified By: _____ **Date:** 11/13/19

From October 2 through 5, 2019, EPA Region II and START V sampling personnel collected 19 groundwater samples, including two field duplicates for trace TCL VOC analysis from the TuTu Wellfield Site located in Anna's Retreat, St. Thomas, U.S. Virgin Islands. Within 24 hours of sample collection, the samples were shipped via FedEx under Chain of Custody for the requested analysis to Chemtech Consulting Group, Inc. located at 284 Sheffield Street, Mountainside, New Jersey. The laboratory verified that samples were received intact, properly sealed, and refrigerated. Sample cooler temperatures measured 2.9 Degrees Celsius (°C).

Field Sample ID	Lab Sample ID	Matrix	Analysis	Sampling Date
SDG No.: K5310				
IW-1-001-01	K5310-01	Groundwater	TCL VOC	10/04/2019
IW-1S-001-01	K5310-02	Groundwater	TCL VOC	10/04/2019
IW-2-001-01	K5310-03	Groundwater	TCL VOC	10/05/2019
IW-2-001-02[1]	K5310-06	Groundwater	TCL VOC	10/05/2019
MW-10D-001-01	K5310-07	Groundwater	TCL VOC	10/03/2019
MW-13D-001-01	K5310-08	Groundwater	TCL VOC	10/03/2019
MW-14-001-01	K5310-09	Groundwater	TCL VOC	10/04/2019
MW-15-001-01	K5310-10	Groundwater	TCL VOC	10/03/2019
MW-1D-001-01	K5310-11	Groundwater	TCL VOC	10/04/2019
MW-21D-001-01	K5310-12	Groundwater	TCL VOC	10/02/2019
MW-5-001-01	K5310-13	Groundwater	TCL VOC	10/03/2019
MW-6D-001-01	K5310-14	Groundwater	TCL VOC	10/03/2019
MW-6D-001-02[2]	K5310-17	Groundwater	TCL VOC	10/03/2019
OU2-MD-2-001-01	K5310-18	Groundwater	TCL VOC	10/04/2019
OU2-MW-1-001-01	K5310-19	Groundwater	TCL VOC	10/03/2019
OU2-MW-2-001-01	K5310-20	Groundwater	TCL VOC	10/04/2019
OU2-MW-3-001-01	K5310-21	Groundwater	TCL VOC	10/04/2019
OU2-MW-4-001-01	K5310-22	Groundwater	TCL VOC	10/04/2019
OU2-MW-5-001-01	K5310-23	Groundwater	TCL VOC	10/04/2019

[1] A field duplicate of IW-2-001-01
[2] A field duplicate of MW-6D-001-01

The current SOP HW-34A (Revision 1) September 2016, USEPA Region II Data Validation SOP for Statement of Work SOM02.4 for evaluating Trace Volatile organic data has been applied.

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. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

2. DEUTERATED MONITORING COMPOUNDS (DMCs)
All samples are spiked with DMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured DMC recoveries were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

The following samples have one or more DMC/surrogate recovery values 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.

1,1-Dichloroethene-d2: IW-1-001-01
trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, 1,1-Dichloroethene

The following samples have one or more DMC/surrogate recovery values greater than or equal to the expanded lower limit of the criteria window. Detected compounds are qualified J-. Non-detected compounds are not qualified.

Vinyl Chloride-d3: OU2-MD-2-001-01
Vinyl Chloride

3. MATRIX SPIKE/ MATRIX SPIKE DUPLICATE (MS/MSD) RECOVERY:
MS/MSD data is generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other QC criteria for additional qualification of data.

Sample IW-2-001-01 was used for MS/MSD analyses. No problems were found for this criterion.

The MS/MSD analyses of sample MW-6D-001-01 yielded low MS recoveries for benzene and toluene; using professional judgment, the non-detected results for benzene and toluene in sample MW-6D-001-01 was estimated (UJ).

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. Depending on the amount of contamination present in the QA blanks, the analytes are qualified as non-detects, "U". Qualifications were applied to the samples and analytes as shown below.

A) Method blank contamination:

No problems were found for this criterion.

B) Trip blank contamination:

Chloromethane, chloroform, toluene, m,p-xylene, and styrene concentrations were less than (<) the contract required quantitation limit (CRQL); and acetone concentration was < 2 x CRQL in trip blanks TB-191007-01 and TB-2-191007-01. Detected compounds are qualified U. Non-detected compounds are not qualified. Sample concentrations reported below CRQL have been elevated to the CRQL and sample concentration CRQL and < 2 times (2x) CRQL have been reported as concentration of sample with a U.

Chloromethane – CRQL value with 'U' qualifier applied to samples IW-2-001-01, IW-2-001-02, MW-14-001-01, and OU2-MW-2-001-01

Acetone - CRQL value with 'U' qualifier applied to samples IW-1S-001-01, MW-13D-001-01, MW-14-001-01, MW-15-001-01, MW-1D-001-01, MW-21D-001-01, MW-6D-001-01, OU2-MD-2-001-01, OU2-MW-1-001-01, OU2-MW-2-001-01, and OU2-MW-5-001-01

Toluene - CRQL value with 'U' qualifier applied to samples IW-2-001-01, IW-2-001-02, MW-13D-001-01, MW-15-001-01, and MW-5-001-01

Chloroform concentration in trip blanks TB-191007-01 and TB-2-191007-01 were less than the CRQL. The chloroform concentrations in samples listed below were greater than CRQL but less than 2 x CRQL. Detected compounds are qualified U. Non-detected compounds are not qualified. Concentrations in samples listed below will be reported with 'U' at sample concentrations.

Chloroform – 'U' qualifier applied to samples MW-14-001-01, MW-15-001-01, MW-6D-001-01, OU2-MW-1-001-01, and OU2-MW-2-001-01

C) Rinse blanks contamination: (8-rinsate blanks can be found in SDG K5309)

Benzene, acetone, toluene, vinyl chloride, m,p-xylene, styrene, methylene chloride, trichloroethene, cis-1,2-dichloroethene, 2-butanone, dibromochloromethane, and/or carbon disulfide were detected less than CRQL in the rinsate blanks. Since, acetone and toluene were

previously qualified due to trip blank concentration, therefore, no further qualifications were required. Benzene, vinyl chloride, m,p-xylene, styrene, methylene chloride, trichloroethene, cis-1,2-dichloroethene, 2-butanone, dibromochloromethane, and/or carbon disulfide samples results were non-detect in associated samples, no qualification was required.

Trichloroethene concentration in rinsate blank RB-2-191003-01 was <CRQL. Detected compounds are qualified 'U'. Non-detected compounds are not qualified. Sample concentrations reported below CRQL have been elevated to the CRQL and qualified with 'U' and sample concentration greater than (>) CRQL but < 2x CRQL were reported at sample concentration with 'U'.

Trichloroethene – CRQL value with 'U' qualifier applied to samples MW-10D-001-01 and MW-6D-001-02

Trichloroethene – 'U' qualifier applied to samples MW-13D-001-01

Tetrachloroethene was reported greater than CRQL in rinsate blank RB-2-191003-01. The following samples have analyte concentrations reported above the CRQL and less than blank concentrations were raised to the level of the blank concentration with a U. Sample concentrations reported below CRQL have been elevated to the CRQL and qualified with a U Non-detected compounds are not qualified.

Tetrachloroethene - Blank value with 'U' qualifier applied to samples MW-13D-001-01, MW-6D-001-01, and MW-6D-001-02

Tetrachloroethene - CRQL value with 'U' qualifier applied to sample OU2-MW-1-001-01

D) Storage Blank associated with VOA samples only:

No problems were found for this criterion.

E) Tentatively Identified Compounds:

No problems were found for this criterion.

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 Bromofluorobenzene (BFB). If the mass calibration is in error, all associated data will be classified as unusable "R". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

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 verifications (CCVs) 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 must be ≥ 0.05, and ≥ 0.01 for the poor performers in both the initial and opening continuing calibrations. For closing continuing calibration response factor for all target compounds must be ≥ 0.01. A value < 0.05 for target compounds 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 were found for this criterion.

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 CCV to the mean relative response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD and %D must meet criteria listed in Table 2 of SOP HW-34A. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J". Non-detects are flagged "UJ" for %D values outside criteria only. If %RSD exceeds QC criteria, non-detects may be qualified using professional judgement. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

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 be in the range of 60% - 140 % of the associated continuing calibration internal standard from the associated continuing calibration standard. If the area count is greater than 140%, all positive results quantitated using that IS are qualified as estimated "J-", and non-detects are not qualified. If the area count is less than 60% of the associated standard, all positive results for compounds quantitated with that IS are qualified as estimated "J+" and all non-detects are qualified "R".

If an internal standard retention time varies by more than 20 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

8. FIELD DUPLICATES:

This analysis measures both field and laboratory precision. A control limit of 20% for the Relative Percent Difference (RPD) will be used for original and duplicate sample values ≥ five times (5x) the Contract Required Quantitation Limit (CRQL). A control limit of the CRQL will be used if either the sample or duplicate value is < 5x the CRQL. For field duplicate analysis that does not meet the technical criteria, the action was applied to only the field sample and it's duplicate.

For field duplicate pair IW-2-001-01 and IW-2-001-02, the RPDs were >50% for carbon disulfide (74.4%) and 1,3-dichlorobenzene (128%). The positive results and/or non-detects in sample IW-2-001-01 and its field duplicate IW-2-001-02 were estimated (J/UJ) for carbon disulfide and 1,3-dichlorobenzene.

For field duplicate pair MW-6D-001-01 and MW-6D-001-02, the RPDs were >50% for acetone. Acetone was detected in sample MW-6D-001-01 at a concentration less than the reporting limit but was not detected in its field duplicate MW-6D-001-02. Since, acetone was previously qualified as U in field sample MW-6D-001-01, due to trip/rinsate blanks contamination, both results are non-detected, no further qualification was required.

9. COMPOUND IDENTIFICATION:

Target 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 a window of 0.06 RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/z 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. Qualifications were applied to the samples and analytes as shown below.

For all TICs where there was a presumptive evidence of a match as compared to the reference spectra (>85% match), results were qualified as tentatively identified (NJ) with approximated concentrations. TICs identified and reported by the laboratory with a poor match compared to the reference spectra (<85% match) were changed to "Unknown" by the validator and results were qualified as estimated (J) (refer to qualified Form Is).

10. CONTRACT NON-COMPLIANCE:

No problems were identified.

11. FIELD DOCUMENTATION:

The Chain-of-Custody was reviewed; no problems were found.

12. OTHER PROBLEMS:

Vinyl chloride concentration exceeded the calibration range in sample IW-1-001-01. The concentration of vinyl chloride was reported from the dilution analysis (IW-1-001-01DL).

Tetrachloroethene concentration exceeded the calibration range in sample MW-15-001-01. The concentration of tetrachloroethene was reported from the dilution analysis (MW-15-001-01DL).

Cis-1,2-Dichloroethene and tetrachloroethene concentrations exceeded the calibration range in sample MW-1D-001-01. The concentrations of cis-1,2-dichloroethene and tetrachloroethene were reported from the dilution analysis (MW-1D-001-01DL).

Vinyl chloride, cis-1,2-dichloroethene, trichloroethene, and tetrachloroethene concentrations exceeded the calibration range in sample OU2-MD-2-001-01. The concentrations of vinyl chloride, cis-1,2-dichloroethene, trichloroethene, and tetrachloroethene were reported from the dilution analysis (OU2-MD-2-001-01DL).

Cis-1,2-Dichloroethene and tetrachloroethene concentrations exceeded the calibration range in sample OU2-MW-2-001-01. Concentrations of the cis-1,2-dichloroethene and tetrachloroethene were reported from the dilution analysis (OU2-MW-2-001-01DL).

Cis-1,2-Dichloroethene, trichloroethene, and tetrachloroethene concentrations exceeded the calibration range in sample OU2-MW-5-001-01. The concentrations of cis-1,2-dichloroethene, trichloroethene, and tetrachloroethene were reported from the dilution analysis (OU2-MW-5-001-01DL).

Samples IW-1-001-01 (x200), OU2-MW-3-001-01 (x40), and OU2-MW04001-01 (x50) were diluted due to bad matrix.

13. DILUTIONS, RE-EXTRACTIONS & REANALYSIS:
Samples may be reanalyzed after dilution, re-extraction and for other QC reasons. In such cases, the best result values are consolidated in one single report and the other report is marked as not to be used. The following Form 1(s) are not used:

IW-1-001-01DL
MW-15-001-01DL
MW-1D-001-01DL
OU2-MD-2-001-01DL
OU2-MW-2-001-01DL
OU2-MW-5-001-01DL

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 5, 2019

Matrix Field Sample ID Lab Sample ID Dilution Factor	Groundwater IW-1-001-01 K5310-01 200, *2000	Groundwater IW-1S-001-01 K5310-02 1	Groundwater IW-2-001-01 K5310-03 1	Groundwater IW-2-001-02[1] K5310-06 1	Groundwater MW-10D-001-01 K5310-07 1
Volatile Organic Compounds (ug/L)					
Dichlorodifluoromethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	***14000**	0.50 U	**8.9**	**9.1**	0.50 U
Bromomethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	100 UJ	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	1000 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	100 U	0.50 U	**2.7 J**	**5.9 J**	0.50 U
Methyl Acetate	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	**45 J**	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	**240 J**	**0.11 J**	**14**	**14**	0.50 U
Methyl tert-butyl Ether	100 U	0.50 U	0.50 U	0.50 U	**5.6**
1,1-Dichloroethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	**49 J**	**3.2**	**0.82**	**0.87**	0.50 U
2-Butanone	1000 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	100 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	100 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	100 U	**4.0**	0.50 U	0.50 U	0.50 U
Methylcyclohexane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	100 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	1000 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	100 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	100 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	100 U	**19**	0.50 U	0.50 U	0.50 U
2-Hexanone	1000 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	100 U	0.50 U	**1.9**	**2.0**	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 5, 2019

Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Field Sample ID	IW-1-001-01	IW-1S-001-01	IW-2-001-01	IW-2-001-02[1]	MW-10D-001-01
Lab Sample ID	K5310-01	K5310-02	K5310-03	K5310-06	K5310-07
Dilution Factor	200, *2000	1	1	1	1
Ethylbenzene	100 U	0.50 U	0.50 U	0.50 U	0.50 U
o-xylene	100 U	0.50 U	0.50 U	0.50 U	0.50 U
m,p-xylene	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	100 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	100 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	100 U	0.50 U	0.50 UJ	**0.11 J**	0.50 U
1,4-Dichlorobenzene	100 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	100 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	100 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	100 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	100 U	0.50 U	0.50 U	0.50 U	0.50 U

U - non-detected
J-: Estimated value
Results reported to the Reporting Limit
Bolded result - Detected Value
ug/L - micrograms per Liter
[1] Field Duplicate of IW-2-001-01

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 5, 2019

Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Field Sample ID	MW-13D-001-01	MW-14-001-01	MW-15-001-01	MW-1D-001-01	MW-21D-001-01
Lab Sample ID	K5310-08	K5310-09	K5310-10	K5310-11	K5310-12
Dilution Factor	1	1	1, *5	1, *5	1
Volatile Organic Compounds (ug/L)					
Dichlorodifluoromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	0.50 U	0.50 U	0.50 U	0.50 U	**3.0**
Bromomethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	0.50 U	**0.10 J**	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	0.50 U	**0.18 J**	**0.16 J**	**0.93**	**0.15 J**
Methyl tert-butyl Ether	0.50 U	0.50 U	0.50 U	0.50 U	**2.1**
1,1-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	0.50 U	**3.1**	**15**	***41**	**19**
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U
Bromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	0.50 U	0.53 U	0.67 U	0.50 U	0.50 U
1,1,1-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	0.58 U	**1.7**	**3.4**	**7.4**	**3.1**
Methylcyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U
Toluene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	13 U	**4.1**	***35**	***25**	**0.32 J**
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.00 U
Dibromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 5, 2019

Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Field Sample ID	MW-13D-001-01	MW-14-001-01	MW-15-001-01	MW-1D-001-01	MW-21D-001-01
Lab Sample ID	K5310-08	K5310-09	K5310-10	K5310-11	K5310-12
Dilution Factor	1	1	1, *5	1, *5	1
Ethylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-xylene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m,p-xylene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

U - non-detected
J-: Estimated for low bias
Results reported to the Reporting Limit
Bolded result - Detected Value

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 5, 2019

Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Field Sample ID	MW-5-001-01	MW-6D-001-01	MW-6D-001-02[2]	OU2-MD-2-001-01	OU2-MW-1-001-01
Lab Sample ID	K5310-13	K5310-14	K5310-17	K5310-18	K5310-19
Dilution Factor	1	1	1	1, *25	1
Volatile Organic Compounds (ug/L)					
Dichlorodifluoromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	0.50 U	0.50 U	0.50 U	***110**	0.50 U
Bromomethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	0.50 U	0.50 U	0.50 U	**5.3**	0.50 U
Methyl tert-butyl Ether	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	0.50 U	**1.4**	**1.3**	***290**	0.50 U
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	0.50 U	0.55 U	0.50 U	0.50 U	0.62 U
1,1,1-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	**1.3**	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	**1.8**	0.50 UJ	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	0.50 U	**0.56**	0.50 U	***42**	0.50 U
Methylcyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	0.50 U	13 U	13 U	***300**	0.50 U
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 5, 2019

Matrix	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Field Sample ID	MW-5-001-01	MW-6D-001-01	MW-6D-001-02[2]	OU2-MD-2-001-01	OU2-MW-1-001-01
Lab Sample ID	K5310-13	K5310-14	K5310-17	K5310-18	K5310-19
Dilution Factor	1	1	1	1, *25	1
Ethylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-xylene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
m,p-xylene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	**2.0**	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	0.50 U	0.50 U	0.50 U	**0.13 J**	0.50 U
1,4-Dichlorobenzene	0.50 U	0.50 U	0.50 U	**0.17 J**	0.50 U
1,2-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

U - non-detected
J-: Estimated for low bias
Results reported to the Reporting Limit
Bolded result - Detected Value
ug/L - micrograms per Liter
[1] Field Duplicate of MW-6D-001-01

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 5, 2019

Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Field Sample ID	OU2-MW-2-001-01	OU2-MW-3-001-01	OU2-MW-4-001-01	OU2-MW-5-001-01
Lab Sample ID	K5310-20	K5310-21	K5310-22	K5310-23
Dilution Factor	1, *5	40	50	1, *25
Volatile Organic Compounds (ug/L)				
Dichlorodifluoromethane	0.50 U	20 U	25 U	0.50 U
Chloromethane	0.50 U	20 U	25 U	0.50 U
Vinyl chloride	**16**	20 U	25 U	**0.37 J**
Bromomethane	0.50 U	20 U	25 U	0.50 U
Chloroethane	0.50 U	20 U	25 U	0.50 U
Trichlorofluoromethane	0.50 U	20 U	25 U	0.50 U
1,1-Dichloroethene	0.50 U	20 U	25 U	**0.56**
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U	20 U	25 U	0.50 U
Acetone	5.0 U	200 U	250 U	5.0 U
Carbon disulfide	0.50 U	20 U	25 U	0.50 U
Methyl Acetate	0.50 U	20 U	25 U	0.50 U
Methylene chloride	0.50 U	20 U	25 U	0.50 U
trans-1,2-Dichloroethene	**1.5**	20 U	25 U	**3.6**
Methyl tert-butyl Ether	0.50 U	20 U	25 U	0.50 U
1,1-Dichloroethane	0.50 U	20 U	25 U	0.50 U
cis-1,2-Dichloroethene	***64**	**61**	**66**	***30**
2-Butanone	5.0 U	200 U	250 U	5.0 U
Bromochloromethane	0.50 U	20 U	25 U	0.50 U
Chloroform	0.64 U	20 U	25 U	0.50 U
1,1,1-Trichloroethane	0.50 U	20 U	25 U	0.50 U
Cyclohexane	0.50 U	20 U	25 U	0.50 U
Carbon tetrachloride	0.50 U	20 U	25 U	0.50 U
Benzene	0.50 U	20 U	25 U	**0.13 J**
1,2-Dichloroethane	0.50 U	20 U	25 U	0.50 U
Trichloroethene	**16**	**27**	**73**	***190**
Methylcyclohexane	0.50 U	20 U	25 U	0.50 U
1,2-Dichloropropane	0.50 U	20 U	25 U	0.50 U
Bromodichloromethane	0.50 U	20 U	25 U	0.50 U
cis-1,3-Dichloropropene	0.50 U	20 U	25 U	0.50 U
4-Methyl-2-pentanone	5.0 U	200 U	250 U	5.0 U
Toluene	0.50 U	20 U	25 U	0.50 U
trans-1,3-Dichloropropene	0.50 U	20 U	25 U	0.50 U
1,1,2-Trichloroethane	0.50 U	20 U	25 U	0.50 U
Tetrachloroethene	***63**	**580**	**810**	***85**
2-Hexanone	5.0 U	200 U	250 U	5.0 U
Dibromochloromethane	0.50 U	20 U	25 U	0.50 U
1,2-Dibromoethane	0.50 U	20 U	25 U	0.50 U
Chlorobenzene	0.50 U	20 U	25 U	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATES: October 2 through 5, 2019

Matrix	Groundwater	Groundwater	Groundwater	Groundwater
Field Sample ID	OU2-MW-2-001-01	OU2-MW-3-001-01	OU2-MW-4-001-01	OU2-MW-5-001-01
Lab Sample ID	K5310-20	K5310-21	K5310-22	K5310-23
Dilution Factor	1, *5	40	50	1, *25
Ethylbenzene	0.50 U	20 U	25 U	0.50 U
o-xylene	0.50 U	20 U	25 U	0.50 U
m,p-xylene	0.50 U	20 U	25 U	0.50 U
Styrene	0.50 U	20 U	25 U	0.50 U
Bromoform	0.50 U	20 U	25 U	0.50 U
Isopropylbenzene	0.50 U	20 U	25 U	0.50 U
1,1,2,2-Tetrachloroethane	0.50 U	20 U	25 U	0.50 U
1,3-Dichlorobenzene	0.50 U	20 U	25 U	0.50 U
1,4-Dichlorobenzene	0.50 U	20 U	25 U	0.50 U
1,2-Dichlorobenzene	0.50 U	20 U	25 U	0.50 U
1,2-Dibromo-3-chloropropane	0.50 U	20 U	25 U	0.50 U
1,2,4-trichlorobenzene	0.50 U	20 U	25 U	0.50 U
1,2,3-Trichlorobenzene	0.50 U	20 U	25 U	0.50 U

U - non-detected
J-: Estimated for low bias
Results reported to the Reporting Limit
Bolded result - Detected Value
ug/L - micrograms per Liter

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : K5310

Project ID : RFP 609

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
K5310-01	IW-1-001-01
K5310-02	IW-1S-001-01
K5310-03	IW-2-001-01
K5310-04	IW-2-001-01MS
K5310-05	IW-2-001-01MSD
K5310-06	IW-2-001-02
K5310-07	MW-10D-001-01
K5310-08	MW-13D-001-01
K5310-09	MW-14-001-01
K5310-10	MW-15-001-01
K5310-11	MW-1D-001-01
K5310-12	MW-21D-001-01
K5310-13	MW-5-001-01
K5310-14	MW-6D-001-01
K5310-15	MW-6D-001-01MS
K5310-16	MW-6D-001-01MSD
K5310-17	MW-6D-001-02
K5310-18	OU2-MD-2-001-01
K5310-19	OU2-MW-1-001-01
K5310-20	OU2-MW-2-001-01
K5310-21	OU2-MW-3-001-01
K5310-22	OU2-MW-4-001-01
K5310-23	OU2-MW-5-001-01
K5310-24	VHBLK01

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

By Nimisha Pandya, QA QC Supervisor at 2:52 pm, Oct 24, 2019

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 609
Project # N/A
Chemtech Project # K5310
Test Name: VOC-Low Level -15

A. Number of Samples and Date of Receipt:
24 Water samples were received on 10/10/2019.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-Low Level -15. This data package contains results for VOC-Low Level -15.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_U were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-Low Level -15 was based on method SOM02.4_Trace.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for
IW-1-001-01 [1,1-Dichloroethene-d2 - 58%] and
OU2-MD-2-001-01 [Vinyl Chloride-d3 - 132%]. As per method, up to three surrogates are allowed to fail. No corrective action was taken.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MW-6D-001-01MS {K5310-15MS} with File ID: VU035136.D recoveries met the requirements for all compounds except for Benzene[74%], Toluene[74%].
The MSD recoveries met the acceptable requirements.

The RPD met criteria.

The storage blank did not indicate the presence of lab contamination.
The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

Samples IW-1-001-01, OU2-MW-3-001-01 and OU2-MW-4-001-01 were diluted due to bad matrices.

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Samples IW-1-001-01, MW-15-001-01, MW-1D-001-01, OU2-MD-2-001-01, OU2-MW-2-001-01 and OU2-MW-5-001-01 were diluted due to high concentrations.

Calculation:
Concentration in ug/L = $\frac{(Ax)\ (Is)\ (DF)}{(Ais)\ (RRF)\ (Vo)}$

Where,

Ax = Area of the characteristic ion (EICP) for the compound to be measured.
Ais = Area of the characteristic ion (EICP) for the internal standard.
Is = Amount of internal standard added in ng.
RRF = Mean Relative Response Factor from the initial calibration standard.
Vo = Total volume of water purged, in mL.
DF = Dilution Factor.

F. Manual Integration comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integration performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _ N. N. Pandya

APPROVED
By Nimisha Pandya, QA QC Supervisor at 2:52 pm, Oct 24, 2019

SAMPLE DATA

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-1-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035068.D
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Date Received : 10/10/2019
GC Column : ID : (mm)
Date Extracted :
Extract Concentrated :(Y / N)
Date Analyzed : 10/10/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 200.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	100	U
74-87-3	Chloromethane	100	U
75-01-4	Vinyl chloride	~~15000~~ * 14,000	~~E~~
74-83-9	Bromomethane	100	U
75-00-3	Chloroethane	100	U
75-69-4	Trichlorofluoromethane	100	U
75-35-4	1,1-Dichloroethene	100	U J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	100	U
67-64-1	Acetone	1000	U
75-15-0	Carbon disulfide	100	U
79-20-9	Methyl Acetate	100	U
75-09-2	Methylene chloride	45	J
156-60-5	trans-1,2-Dichloroethene	240	J
1634-04-4	Methyl tert-butyl Ether	100	U
75-34-3	1,1-Dichloroethane	100	U
156-59-2	cis-1,2-Dichloroethene	49	~~J~~ J
78-93-3	2-Butanone	1000	U
74-97-5	Bromochloromethane	100	U
67-66-3	Chloroform	100	U
71-55-6	1,1,1-Trichloroethane	100	U
110-82-7	Cyclohexane	100	U
56-23-5	Carbon tetrachloride	100	U
71-43-2	Benzene	100	U
107-06-2	1,2-Dichloroethane	100	U
79-01-6	Trichloroethene	100	U

* 2000 x DIF - Value transferred from the dilution analysis.
10/30/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-1-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035068.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/10/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 200.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	100	U
78-87-5	1,2-Dichloropropane	100	U
75-27-4	Bromodichloromethane	100	U
10061-01-5	cis-1,3-Dichloropropene	100	U
108-10-1	4-Methyl-2-pentanone	1000	U
108-88-3	Toluene	100	U
10061-02-6	trans-1,3-Dichloropropene	100	U
79-00-5	1,1,2-Trichloroethane	100	U
127-18-4	Tetrachloroethene	100	U
591-78-6	2-Hexanone	1000	U
124-48-1	Dibromochloromethane	100	U
106-93-4	1,2-Dibromoethane	100	U
108-90-7	Chlorobenzene	100	U
100-41-4	Ethylbenzene	100	U
95-47-6	o-Xylene	100	U
179601-23-1	m,p-Xylene	100	U
100-42-5	Styrene	100	U
75-25-2	Bromoform	100	U
98-82-8	Isopropylbenzene	100	U
79-34-5	1,1,2,2-Tetrachloroethane	100	U
541-73-1	1,3-Dichlorobenzene	100	U
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	100	U
96-12-8	1,2-Dibromo-3-chloropropane	100	U
120-82-1	1,2,4-trichlorobenzene	100	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-1-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035068.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/10/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 200.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	100	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
IW-1-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5310
Level :
Lab Sample ID : K5310-01
Lab File ID : VU035068.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/10/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 200.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-1-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-01DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035112.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 2000.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	1000	U
74-87-3	Chloromethane	1000	U
75-01-4	Vinyl chloride	14000	D
74-83-9	Bromomethane	1000	U
75-00-3	Chloroethane	1000	U
75-69-4	Trichlorofluoromethane	1000	U
75-35-4	1,1-Dichloroethene	1000	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1000	U
67-64-1	Acetone	10000	U
75-15-0	Carbon disulfide	1000	U
79-20-9	Methyl Acetate	1000	U
75-09-2	Methylene chloride	1000	U
156-60-5	trans-1,2-Dichloroethene	250	JD
1634-04-4	Methyl tert-butyl Ether	1000	U
75-34-3	1,1-Dichloroethane	1000	U
156-59-2	cis-1,2-Dichloroethene	1000	U
78-93-3	2-Butanone	10000	U
74-97-5	Bromochloromethane	1000	U
67-66-3	Chloroform	1000	U
71-55-6	1,1,1-Trichloroethane	1000	U
110-82-7	Cyclohexane	1000	U
56-23-5	Carbon tetrachloride	1000	U
71-43-2	Benzene	1000	U
107-06-2	1,2-Dichloroethane	1000	U
79-01-6	Trichloroethene	1000	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-1-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-01DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035112.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 2000.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	1000	U
78-87-5	1,2-Dichloropropane	1000	U
75-27-4	Bromodichloromethane	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
108-10-1	4-Methyl-2-pentanone	10000	U
108-88-3	Toluene	1000	U
10061-02-6	trans-1,3-Dichloropropene	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
127-18-4	Tetrachloroethene	1000	U
591-78-6	2-Hexanone	10000	U
124-48-1	Dibromochloromethane	1000	U
106-93-4	1,2-Dibromoethane	1000	U
108-90-7	Chlorobenzene	1000	U
100-41-4	Ethylbenzene	1000	U
95-47-6	o-Xylene	1000	U
179601-23-1	m,p-Xylene	1000	U
100-42-5	Styrene	1000	U
75-25-2	Bromoform	1000	U
98-82-8	Isopropylbenzene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
541-73-1	1,3-Dichlorobenzene	1000	U
106-46-7	1,4-Dichlorobenzene	1000	U
95-50-1	1,2-Dichlorobenzene	1000	U
96-12-8	1,2-Dibromo-3-chloropropane	1000	U
120-82-1	1,2,4-trichlorobenzene	1000	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-1-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-01DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035112.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 2000.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	1000	U

Do not use this Form I.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
IW-1-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-01DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035112.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/12/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 2000.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

Do not use Form I

10/30/19

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-1S-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035100.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.9~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.11	J
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	3.2	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	4.0	

10/30/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-1S-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035100.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	19	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-1S-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035100.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
IW-1S-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035100.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/11/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035101.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	~~0.16~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	8.9	
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	2.7	J
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	14	
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.82	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035101.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	~~0.21~~ 0.50	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	1.9	
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U J
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035101.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
IW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035101.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/11/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000075-18-3	Dimethyl sulfide	2.37	8.2	JN
2	000624-89-5	Ethane, (methylthio)-	4.1	0.67	JN
3	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-2-001-02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035099.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	~~0.13~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	9.1	
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	5.9	J
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	14	
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.87	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-2-001-02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035099.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	~~0.26~~ 0.50	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	2.0	
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.11	J
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

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FORM 1A-OR
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TARGET ANALYTE LIST

EPA SAMPLE NO.
IW-2-001-02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035099.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
IW-2-001-02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035099.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/11/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000075-18-3	Dimethyl sulfide	2.37	8.2	JN
2	000624-89-5	Ethane, (methylthio)-	4.1	0.69	JN
3	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-10D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035083.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	5.6	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	~~0.15~~ 0.5	~~J~~ U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-10D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035083.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-10D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035083.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-10D-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5310
Level :
Lab Sample ID : K5310-07
Lab File ID : VU035083.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/11/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000420-56-4	Trimethylsilyl fluoride	1.51	13	JN
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-13D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035084.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.6~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.58	U

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TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-13D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035084.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	~~0.11~~ 0.50	~~U~~ U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	~~5.3~~ 13	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-13D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035084.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
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TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-13D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035084.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/11/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000075-37-6	Ethane, 1,1-difluoro-	1.18	2.6	JN
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-14-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035085.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	~~0.15~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.10	J
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.7~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.18	J
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	3.1	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.53	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	1.7	

10/30/19

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EPA SAMPLE NO.
MW-14-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035085.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	4.1	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
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TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-14-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035085.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
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TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-14-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5310
Level :
Lab Sample ID : K5310-09
Lab File ID : VU035085.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/11/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	001717-00-6	1,1-Dichloro-1-fluoroethane UNKNOWN	2.07	0.58	JN
2	E966796	Total Alkanes	N/A	0.0	

10/30/19

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-15-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-10
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035086.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~2.0~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.16	J
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	15	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.67	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	3.4	

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TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-15-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-10
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035086.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	~~0.12~~ 0.50	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	~~41~~ 35*	~~E~~
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

* 5 x DF - Value reported from the dilution analysis — 10/30/19

FORM 1A-OR
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TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-15-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-10
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035086.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-15-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5310
Level :
Lab Sample ID : K5310-10
Lab File ID : VU035086.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/11/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-15-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-10DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035104.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	2.5	U
74-87-3	Chloromethane	2.5	U
75-01-4	Vinyl chloride	2.5	U
74-83-9	Bromomethane	2.5	U
75-00-3	Chloroethane	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U
67-64-1	Acetone	25	U
75-15-0	Carbon disulfide	2.5	U
79-20-9	Methyl Acetate	2.5	U
75-09-2	Methylene chloride	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
1634-04-4	Methyl tert-butyl Ether	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
156-59-2	cis-1,2-Dichloroethene	13	D
78-93-3	2-Butanone	25	U
74-97-5	Bromochloromethane	2.5	U
67-66-3	Chloroform	2.5	U
71-55-6	1,1,1-Trichloroethane	2.5	U
110-82-7	Cyclohexane	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
71-43-2	Benzene	2.5	U
107-06-2	1,2-Dichloroethane	2.5	U
79-01-6	Trichloroethene	3.0	D

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-15-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-10DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035104.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	2.5	U
78-87-5	1,2-Dichloropropane	2.5	U
75-27-4	Bromodichloromethane	2.5	U
10061-01-5	cis-1,3-Dichloropropene	2.5	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U
127-18-4	Tetrachloroethene	35	D
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
108-90-7	Chlorobenzene	2.5	U
100-41-4	Ethylbenzene	2.5	U
95-47-6	o-Xylene	2.5	U
179601-23-1	m,p-Xylene	2.5	U
100-42-5	Styrene	2.5	U
75-25-2	Bromoform	2.5	U
98-82-8	Isopropylbenzene	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U
120-82-1	1,2,4-trichlorobenzene	2.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-15-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-10DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035104.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	2.5	U

Do not use this Form I

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-15-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-10DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035104.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/11/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 5.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

Do not include in Form I.

10/30/19

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-1D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-11
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035087.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.7~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.93	
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	~~50~~ * 41	~~E~~
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	7.4	

* 5X DIF - Value transferred from dilution analysis - JE 10/30/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-1D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-11
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035087.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	30 *25	~~E~~
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

* 5xDIF Value transferred from dilution analysis.
10/30/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-1D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-11
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035087.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-1D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-11
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035087.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/11/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-1D-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-11DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035105.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	2.5	U
74-87-3	Chloromethane	2.5	U
75-01-4	Vinyl chloride	2.5	U
74-83-9	Bromomethane	2.5	U
75-00-3	Chloroethane	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U
67-64-1	Acetone	25	U
75-15-0	Carbon disulfide	2.5	U
79-20-9	Methyl Acetate	2.5	U
75-09-2	Methylene chloride	2.5	U
156-60-5	trans-1,2-Dichloroethene	0.89	JD
1634-04-4	Methyl tert-butyl Ether	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
156-59-2	cis-1,2-Dichloroethene	41	D
78-93-3	2-Butanone	25	U
74-97-5	Bromochloromethane	2.5	U
67-66-3	Chloroform	2.5	U
71-55-6	1,1,1-Trichloroethane	2.5	U
110-82-7	Cyclohexane	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
71-43-2	Benzene	2.5	U
107-06-2	1,2-Dichloroethane	2.5	U
79-01-6	Trichloroethene	6.5	D

Do not use Form 1 this

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-1D-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-11DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035105.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	2.5	U
78-87-5	1,2-Dichloropropane	2.5	U
75-27-4	Bromodichloromethane	2.5	U
10061-01-5	cis-1,3-Dichloropropene	2.5	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U
127-18-4	Tetrachloroethene	25	D
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
108-90-7	Chlorobenzene	2.5	U
100-41-4	Ethylbenzene	2.5	U
95-47-6	o-Xylene	2.5	U
179601-23-1	m,p-Xylene	2.5	U
100-42-5	Styrene	2.5	U
75-25-2	Bromoform	2.5	U
98-82-8	Isopropylbenzene	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U
120-82-1	1,2,4-trichlorobenzene	2.5	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-1D-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-11DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035105.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	2.5	U

Do not use this Form I.

10/30/19

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-1D-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-11DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035105.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/11/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 5.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

Do not use this Form I

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-21D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035113.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	3.0	
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~3.0~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.15	J
1634-04-4	Methyl tert-butyl Ether	2.1	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	19	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	3.1	

10/30/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-21D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035113.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.32	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-21D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035113.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-21D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-12
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035113.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/12/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000075-45-6	Difluorochloromethane	1.21	0.50	JN
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-5-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035131.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	1.3	
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	1.8	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-5-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035131.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	~~0.19~~ 0.50	~~J~~ U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	2.0	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-5-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035131.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-5-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035131.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/12/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	001192-14-9	Cyclobutanone, 2,2-dimethyl-	5.46	22	JN
2		unknown-01	7.28	2.8	J
3	000473-91-6	Cyclopentene, 1,2,3-trimethyl-	8.07	11	JN
4	001759-64-4	Cyclohexene, 1,6-dimethyl-	8.74	4.2	JN
5	000694-72-4	Pentalene, octahydro-	9.17	1.0	JN
6		unknown-02	9.35	3.7	J
7	1000196-32-3	Cyclohexanol, 2-methylene-6-methyl	9.69	1.6	JN
8		unknown-03	9.94	1.5	J
9		unknown-04	10.35	0.92	J
10	000103-65-1	Benzene, propyl-	10.57	7.0	JN
11	000538-93-2	Benzene, (2-methylpropyl)-	11.27	0.93	JN
12	002085-88-3	Oxirane, 2-methyl-2-phenyl-	11.31	1.4	JN
13	000099-87-6	p-Cymene	11.67	2.3	JN
14	000135-01-3	Benzene, 1,2-diethyl-	11.76	41	JN
15	001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	12.23	3.0	JN
16	001560-06-1	Benzene, 2-butenyl-	12.27	1.0	JN
17	007525-62-4	Benzene, 1-ethenyl-3-ethyl-	12.33	9.4	JN
18	097664-18-1	Benzene, 1-methyl-4-(1-methyl-2-pr	12.41	1.7	JN
19	004912-92-9	1H-Indene, 2,3-dihydro-1,1-dimethy	12.51	4.4	JN
20	000105-05-5	Benzene, 1,4-diethyl-	12.6	1.5	JN
21	000527-53-7	Benzene, 1,2,3,5-tetramethyl-	12.63	2.6	JN
22	001595-16-0	Benzene, 1-methyl-4-(1-methylpropy	12.76	10	JN
23	017059-48-2	1H-Indene, 2,3-dihydro-1,6-dimethy	12.97	3.7	JN

EPA-designated Registry Number.

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-5-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-13
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035131.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/12/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
24	000577-55-9	Benzene, 1,2-bis(1-methylethyl)- Unknown	13.04	1.4	JN
25	002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	13.1	1.8	JN
26	004175-53-5	1H-Indene, 2,3-dihydro-1,3-dimethy Unknown	13.17	0.90	JN
27	002050-24-0	Benzene, 1,3-diethyl-5-methyl-	13.23	2.2	JN
28	054758-36-0	(1-Methylbuta-1,3-dienyl)benzene Unknown	13.43	2.6	JN
29	017057-82-8	1H-Indene, 2,3-dihydro-1,2-dimethy	13.49	1.8	JN
30	000828-15-9	Hex-1-enylbenzene Unknown	13.53	1.9	JN
31	E966796	Total Alkanes	N/A	450	

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EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-6D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035157.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.3~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.4	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.55	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U J
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.56	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-6D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035157.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	~~3.4~~ 13	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-6D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035157.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-6D-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-14
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035157.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/14/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-6D-001-02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-17
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035132.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.3	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	~~0.49~~ 0.50	~~J~~ U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-6D-001-02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-17
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035132.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	~~2.9~~ 13	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
MW-6D-001-02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-17
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035132.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
MW-6D-001-02

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5310
Level :
Lab Sample ID : K5310-17
Lab File ID : VU035132.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/12/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MD-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-18
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035133.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	~~110~~ *110	~~E~~ ~~J~~
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~2.4~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	5.3	
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	~~320~~ *290	~~E~~
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	~~46~~ *42	~~E~~

*25%DIF- Values between original and the dilution analysis — EG 10/30/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MD-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-18
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035133.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	~~360~~ *300	~~E~~
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.13	J
106-46-7	1,4-Dichlorobenzene	0.17	J
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

*25XDIF - Value determined from the dilution analysis - 10/30/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MD-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : _____ SDG No.: K5310
Analytical Method : Trace VOA
Level : _____
Matrix : Water
Lab Sample ID : K5310-18
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035133.D
% Solids : _____
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted : _____
GC Column : _____ ID : _____ (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N) _____
Extract Volume : _____ (µL)
Soil Aliquot (VOA) : _____ (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : _____ (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types : _____
Cleanup Factor : _____
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
OU2-MD-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-18
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035133.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/12/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MD-2-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-18DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035161.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 25.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl chloride	110	D
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	130	U
75-15-0	Carbon disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene chloride	13	U
156-60-5	trans-1,2-Dichloroethene	5.6	JD
1634-04-4	Methyl tert-butyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	290	D
78-93-3	2-Butanone	130	U
74-97-5	Bromochloromethane	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	42	D

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MD-2-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-18DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035161.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 25.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	130	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	300	D
591-78-6	2-Hexanone	130	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
95-47-6	o-Xylene	13	U
179601-23-1	m,p-Xylene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-trichlorobenzene	13	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MD-2-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-18DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035161.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 25.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	13	U

Do not use this

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
OU2-MD-2-001-01DL

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5310
Level :
Lab Sample ID : K5310-18DL
Lab File ID : VU035161.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/14/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 25.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

Do not use this Form

10/30/19

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-1-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-19
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035156.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.7~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.62	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-1-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-19
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035156.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	~~0.20~~ 0.50	~~J~~ U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

10/30/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-1-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-19
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035156.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
OU2-MW-1-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-19
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035156.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/14/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-20
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035089.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	~~0.24~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	16	
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~4.1~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	1.5	
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	~~88~~ * 14	~~E~~
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.64	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	16	

* 35% DIF - Value confirmed during the dilution analysis — JD 10/30/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-20
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035089.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	~~85~~ * 63	~~E~~
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

* 5xDIF - Value from 5x re-run from the diluting analysis - JS 10/30/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-20
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035089.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
OU2-MW-2-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-20
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035089.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/11/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-2-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-20DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035107.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	2.5	U
74-87-3	Chloromethane	2.5	U
75-01-4	Vinyl chloride	12	D
74-83-9	Bromomethane	2.5	U
75-00-3	Chloroethane	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.5	U
67-64-1	Acetone	25	U
75-15-0	Carbon disulfide	2.5	U
79-20-9	Methyl Acetate	2.5	U
75-09-2	Methylene chloride	2.5	U
156-60-5	trans-1,2-Dichloroethene	1.2	JD
1634-04-4	Methyl tert-butyl Ether	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
156-59-2	cis-1,2-Dichloroethene	64	D
78-93-3	2-Butanone	25	U
74-97-5	Bromochloromethane	2.5	U
67-66-3	Chloroform	2.5	U
71-55-6	1,1,1-Trichloroethane	2.5	U
110-82-7	Cyclohexane	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
71-43-2	Benzene	2.5	U
107-06-2	1,2-Dichloroethane	2.5	U
79-01-6	Trichloroethene	12	D

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-2-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-20DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035107.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	2.5	U
78-87-5	1,2-Dichloropropane	2.5	U
75-27-4	Bromodichloromethane	2.5	U
10061-01-5	cis-1,3-Dichloropropene	2.5	U
108-10-1	4-Methyl-2-pentanone	25	U
108-88-3	Toluene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U
127-18-4	Tetrachloroethene	63	D
591-78-6	2-Hexanone	25	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
108-90-7	Chlorobenzene	2.5	U
100-41-4	Ethylbenzene	2.5	U
95-47-6	o-Xylene	2.5	U
179601-23-1	m,p-Xylene	2.5	U
100-42-5	Styrene	2.5	U
75-25-2	Bromoform	2.5	U
98-82-8	Isopropylbenzene	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	U
120-82-1	1,2,4-trichlorobenzene	2.5	U

Do not use this Form 1

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-2-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : _____ SDG No.: K5310
Analytical Method : Trace VOA
Level : _____
Matrix : Water
Lab Sample ID : K5310-20DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035107.D
% Solids : _____
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted : _____
GC Column : _____ ID : _____ (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N) _____
Extract Volume : _____ (µL)
Soil Aliquot (VOA) : _____ (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : _____ (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 5.0
Cleanup Types : _____
Cleanup Factor : _____
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	2.5	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
OU2-MW-2-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-20DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035107.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/11/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 5.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

Do not use this form

12/12/19

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-3-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-21
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035110.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 40.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
67-64-1	Acetone	200	U
75-15-0	Carbon disulfide	20	U
79-20-9	Methyl Acetate	20	U
75-09-2	Methylene chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl tert-butyl Ether	20	U
75-34-3	1,1-Dichloroethane	20	U
156-59-2	cis-1,2-Dichloroethene	61	
78-93-3	2-Butanone	200	U
74-97-5	Bromochloromethane	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
110-82-7	Cyclohexane	20	U
56-23-5	Carbon tetrachloride	20	U
71-43-2	Benzene	20	U
107-06-2	1,2-Dichloroethane	20	U
79-01-6	Trichloroethene	27	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-3-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-21
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035110.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 40.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	20	U
78-87-5	1,2-Dichloropropane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-pentanone	200	U
108-88-3	Toluene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	580	
591-78-6	2-Hexanone	200	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
95-47-6	o-Xylene	20	U
179601-23-1	m,p-Xylene	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-chloropropane	20	U
120-82-1	1,2,4-trichlorobenzene	20	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-3-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-21
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035110.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 40.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	20	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
OU2-MW-3-001-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5310
Level :
Lab Sample ID : K5310-21
Lab File ID : VU035110.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/11/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 40.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-4-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-22
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035114.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 50.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	25	U
74-87-3	Chloromethane	25	U
75-01-4	Vinyl chloride	25	U
74-83-9	Bromomethane	25	U
75-00-3	Chloroethane	25	U
75-69-4	Trichlorofluoromethane	25	U
75-35-4	1,1-Dichloroethene	25	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U
67-64-1	Acetone	250	U
75-15-0	Carbon disulfide	25	U
79-20-9	Methyl Acetate	25	U
75-09-2	Methylene chloride	25	U
156-60-5	trans-1,2-Dichloroethene	25	U
1634-04-4	Methyl tert-butyl Ether	25	U
75-34-3	1,1-Dichloroethane	25	U
156-59-2	cis-1,2-Dichloroethene	66	
78-93-3	2-Butanone	250	U
74-97-5	Bromochloromethane	25	U
67-66-3	Chloroform	25	U
71-55-6	1,1,1-Trichloroethane	25	U
110-82-7	Cyclohexane	25	U
56-23-5	Carbon tetrachloride	25	U
71-43-2	Benzene	25	U
107-06-2	1,2-Dichloroethane	25	U
79-01-6	Trichloroethene	73	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-4-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-22
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035114.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 50.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	25	U
78-87-5	1,2-Dichloropropane	25	U
75-27-4	Bromodichloromethane	25	U
10061-01-5	cis-1,3-Dichloropropene	25	U
108-10-1	4-Methyl-2-pentanone	250	U
108-88-3	Toluene	25	U
10061-02-6	trans-1,3-Dichloropropene	25	U
79-00-5	1,1,2-Trichloroethane	25	U
127-18-4	Tetrachloroethene	810	
591-78-6	2-Hexanone	250	U
124-48-1	Dibromochloromethane	25	U
106-93-4	1,2-Dibromoethane	25	U
108-90-7	Chlorobenzene	25	U
100-41-4	Ethylbenzene	25	U
95-47-6	o-Xylene	25	U
179601-23-1	m,p-Xylene	25	U
100-42-5	Styrene	25	U
75-25-2	Bromoform	25	U
98-82-8	Isopropylbenzene	25	U
79-34-5	1,1,2,2-Tetrachloroethane	25	U
541-73-1	1,3-Dichlorobenzene	25	U
106-46-7	1,4-Dichlorobenzene	25	U
95-50-1	1,2-Dichlorobenzene	25	U
96-12-8	1,2-Dibromo-3-chloropropane	25	U
120-82-1	1,2,4-trichlorobenzene	25	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-4-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-22
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035114.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/12/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 50.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	25	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
OU2-MW-4-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-22
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035114.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/12/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 50.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-5-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-23
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035080.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.37	J
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.56	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~1.3~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	3.6	
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	~~34~~ *30	~~E~~
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.13	J
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	~~250~~ *190	~~E~~

* 25x DIF - values transfer from the diluting analysis.
10/30/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-5-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-23
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035080.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	~~110~~ * 85	~~E~~
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

* 25x DIF - value transfer from the dilution analysis - ED 10/30/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-5-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : _____ SDG No.: K5310
Analytical Method : Trace VOA
Level : _____
Matrix : Water
Lab Sample ID : K5310-23
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035080.D
% Solids : _____
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted : _____
GC Column : _____ ID : _____ (mm)
Date Analyzed : 10/11/2019
Extract Concentrated : (Y / N) _____
Extract Volume : _____ (µL)
Soil Aliquot (VOA) : _____ (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : _____ (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types : _____
Cleanup Factor : _____
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
OU2-MW-5-001-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-23
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035080.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/11/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-5-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-23DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035109.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 25.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	130	U
75-15-0	Carbon disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene chloride	13	U
156-60-5	trans-1,2-Dichloroethene	4.5	JD
1634-04-4	Methyl tert-butyl Ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	30	D
78-93-3	2-Butanone	130	U
74-97-5	Bromochloromethane	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U
79-01-6	Trichloroethene	190	D

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-5-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-23DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035109.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 25.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-pentanone	130	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	85	D
591-78-6	2-Hexanone	130	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
95-47-6	o-Xylene	13	U
179601-23-1	m,p-Xylene	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-chloropropane	13	U
120-82-1	1,2,4-trichlorobenzene	13	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
OU2-MW-5-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-23DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035109.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/11/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 25.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	13	U

Do not use this form

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
OU2-MW-5-001-01DL

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-23DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035109.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/11/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 25.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

Do not use this form

10/30/19

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-24
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035183.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/15/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-24
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035183.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/15/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-24
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035183.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/15/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5310
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5310-24
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035183.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/15/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	K5310	**OrderDate:**	10/10/2019 10:01:00 AM
Client:	Weston Solutions, Inc.	**Project:**	RFP 609
Contact:	Smita Sumbaly	**Location:**	

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
K5310-01	**IW-1-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/04/19**		10/10/19	**10/10/19**
K5310-01DL	**IW-1-001-01DL**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/04/19**		10/12/19	**10/10/19**
K5310-02	**IW-1S-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/04/19**		10/11/19	**10/10/19**
K5310-03	**IW-2-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/05/19**		10/11/19	**10/10/19**
K5310-06	**IW-2-001-02**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/05/19**		10/11/19	**10/10/19**
K5310-07	**MW-10D-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/03/19**		10/11/19	**10/10/19**
K5310-08	**MW-13D-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/03/19**		10/11/19	**10/10/19**
K5310-09	**MW-14-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/04/19**		10/11/19	**10/10/19**
K5310-10	**MW-15-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/03/19**		10/11/19	**10/10/19**

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LAB CHRONICLE

K5310-10DL	**MW-15-001-01DL**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/03/19**	10/11/19	**10/10/19**
K5310-11	**MW-1D-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/04/19**	10/11/19	**10/10/19**
K5310-11DL	**MW-1D-001-01DL**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/04/19**	10/11/19	**10/10/19**
K5310-12	**MW-21D-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/02/19**	10/12/19	**10/10/19**
K5310-13	**MW-5-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/03/19**	10/12/19	**10/10/19**
K5310-14	**MW-6D-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/03/19**	10/14/19	**10/10/19**
K5310-17	**MW-6D-001-02**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/03/19**	10/12/19	**10/10/19**
K5310-18	**OU2-MD-2-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/04/19**	10/12/19	**10/10/19**
K5310-18DL	**OU2-MD-2-001-01DL**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/04/19**	10/14/19	**10/10/19**
K5310-19	**OU2-MW-1-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/03/19**	10/14/19	**10/10/19**
K5310-20	**OU2-MW-2-001-01**	**Water**	VOC-Low Level -15	SOM02.4_Trace	**10/04/19**	10/11/19	**10/10/19**

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LAB CHRONICLE

K5310-20DL	**OU2-MW-2-001-01DL**	**Water**			**10/04/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/11/19	
K5310-21	**OU2-MW-3-001-01**	**Water**			**10/04/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/11/19	
K5310-22	**OU2-MW-4-001-01**	**Water**			**10/04/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/12/19	
K5310-23	**OU2-MW-5-001-01**	**Water**			**10/04/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/11/19	
K5310-23DL	**OU2-MW-5-001-01DL**	**Water**			**10/04/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/11/19	
K5310-24	**VHBLK01**	**Water**			**10/10/19**		**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace		10/15/19	

SHIPPING DOCUMENTS

2 of 2 coolers

K5310

4

4.1

USEPA
DateShipped: 10/7/2019
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 021D
Contact Name: Joel Siegel
Contact Phone: 732-570-5022

No: 2-100719-0032-0052-0001
Lab: Chemtech Consulting Group
Lab Address: 284 Sheffield Street
Lab Phone: 908-789-8900

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	IW-1-001-01	IW-1	TCL VOCs	Ground Water	10/4/2019	16:10	3	40 ml VOA	HCL, pH<2	N
	IW-1S-001-01	IW-1S	TCL VOCs	Ground Water	10/4/2019	15:00	3	40 ml VOA	HCL, pH<2	N
	IW-2-001-01	IW-2	TCL VOCs	Ground Water	10/5/2019	09:35	9	40 ml VOA	HCL, pH<2	Y
	IW-2-001-02	IW-2	TCL VOCs	Ground Water	10/5/2019	09:36	3	40 ml VOA	HCL, pH<2	N
	MW-10D-001-01	MW-10D	TCL VOCs	Ground Water	10/3/2019	09:53	3	40 ml VOA	HCL, pH<2	N
	MW-13D-001-01	MW-13D	TCL VOCs	Ground Water	10/3/2019	17:25	3	40 ml VOA	HCL, pH<2	N
	MW-14-001-01	MW-14	TCL VOCs	Ground Water	10/4/2019	09:45	3	40 ml VOA	HCL, pH<2	N
	MW-15-001-01	MW-15	TCL VOCs	Ground Water	10/3/2019	12:05	3	40 ml VOA	HCL, pH<2	N
	MW-1D-001-01	MW-1D	TCL VOCs	Ground Water	10/4/2019	14:06	3	40 ml VOA	HCL, pH<2	N
	MW-21D-001-01	MW-21D	TCL VOCs	Ground Water	10/2/2019	17:08	3	40 ml VOA	HCL, pH<2	N
	MW-5-001-01	MW-5	TCL VOCs	Ground Water	10/3/2019	14:30	3	40 ml VOA	HCL, pH<2	N
	MW-6D-001-01	MW-6D	TCL VOCs	Ground Water	10/3/2019	11:55	9	40 ml VOA	HCL, pH<2	Y
	MW-6D-001-02	MW-6D	TCL VOCs	Ground Water	10/3/2019	11:55	3	40 ml VOA	HCL, pH<2	N
	OU2-MD-2-001-01	OU2-MD-2	TCL VOCs	Ground Water	10/4/2019	11:40	3	40 ml VOA	HCL, pH<2	N
	OU2-MW-1-001-01	OU2-MW-1	TCL VOCs	Ground Water	10/3/2019	15:50	3	40 ml VOA	HCL, pH<2	N
	OU2-MW-2-001-01	OU2-MW-2	TCL VOCs	Ground Water	10/4/2019	13:45	3	40 ml VOA	HCL, pH<2	N
	OU2-MW-3-001-01	OU2-MW-3	TCL VOCs	Ground Water	10/4/2019	16:46	3	40 ml VOA	HCL, pH<2	N
	OU2-MW-4-001-01	OU2-MW-4	TCL VOCs	Ground Water	10/4/2019	11:07	3	40 ml VOA	HCL, pH<2	N
	OU2-MW-5-001-01	OU2-MW-5	TCL VOCs	Ground Water	10/4/2019	09:38	3	40 ml VOA	HCL, pH<2	N

Special Instructions: Please email results to s.sumbaly@westonsolutions.com. Detection limit of 1.0 ppb per RFP #609. Small bubbles were noticed at time of collection in samples IW-2-001-01 and RD-14-001-01 due to effervescence with HCL.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All Analytes	[signature]	10/9/19 1600	[signature]	10-10-19 0915	2.9°C NO FLAGS IRGUN #1 custody seals intact Temp blk - present

Aparna Soni

From: Steven Chaimowitz <S.Chaim@chemtech.net>
Sent: Thursday, October 10, 2019 9:59 AM
To: Samantha@chemtech.net
Subject: FW: RFP 609

Please save in PM folder for Weston projects

From: Donohue, Kathryn [mailto:Kathryn.Donohue@WestonSolutions.com]
Sent: Thursday, October 10, 2019 9:59 AM
To: s.chaim@chemtech.net
Cc: kurt@chemtech.net; Siegel, Joel <Joel.Siegel@WestonSolutions.com>
Subject: RE: RFP 609

These are a part of RFP#609 and the last samples that you will receive. Thank you.

From: Steven Chaimowitz [mailto:S.Chaim@chemtech.net]
Sent: Thursday, October 10, 2019 9:54 AM
To: joel.siegel@wstonsolution.com
Cc: Donohue, Kathryn <Kathryn.Donohue@WestonSolutions.com>; kurt@chemtech.net
Subject: RFP 609

**** External Email ****
Good Morning,
Please see the attached. Please confirm the COCs are part of project RFP 609. Thank you.

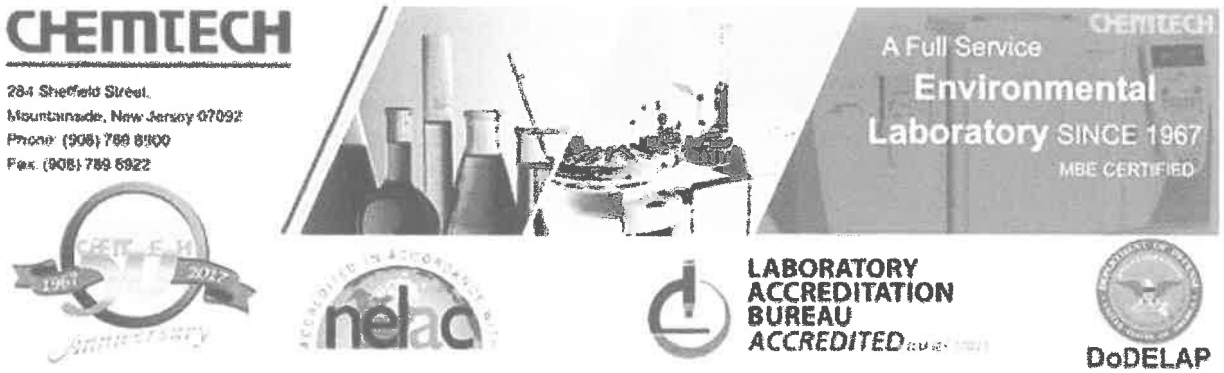
Regards,

Steven Chaimowitz
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092
Direct: (908) 728-3147
s.chaim@chemtech.net | www.chemtech.net

Your Opinion Matters! Please Give Us Your Feedback



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Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Maine	2012025
Maryland	296
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5

FORM DC-1

SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page__of__
Received By (Print Name) Cassandra Reis		Log-in Date **10/10/2019**
Received By (Signature)		
Case Number RFP 609	SDG No. K5310	MA No. N/A

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No.	8147650536050402
6. Sample Tags Sample Tag #	Absent Listed on Traffic Report
7. Sample Condition	Intact
8. Shipping Container Temperature Indicator Bottle	Present
9. Shipping Container Temperature	2.9 Degree C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/10/2019
12.Time Received	09:15

	EPA Sample #	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample shipment, etc.
1	IW-1-001-01		K5310-01	Intact
2	IW-1S-001-01		K5310-02	Intact
3	IW-2-001-01		K5310-03	Intact
4	IW-2-001-01MS		K5310-04	Intact
5	IW-2-001-01MSD		K5310-05	Intact
6	IW-2-001-02		K5310-06	Intact
7	MW-10D-001-01		K5310-07	Intact
8	MW-13D-001-01		K5310-08	Intact
9	MW-14-001-01		K5310-09	Intact
10	MW-15-001-01		K5310-10	Intact
11	MW-1D-001-01		K5310-11	Intact
12	MW-21D-001-01		K5310-12	Intact
13	MW-5-001-01		K5310-13	Intact
14	MW-6D-001-01		K5310-14	Intact
15	MW-6D-001-01MS		K5310-15	Intact
16	MW-6D-001-01MS		K5310-16	Intact
17	MW-6D-001-02		K5310-17	Intact
18	OU2-MD-2-001-01		K5310-18	Intact
19	OU2-MW-1-001-01		K5310-19	Intact
20	OU2-MW-2-001-01		K5310-20	Intact
21	OU2-MW-3-001-01		K5310-21	Intact
22	OU2-MW-4-001-01		K5310-22	Intact
23	OU2-MW-5-001-01		K5310-23	Intact
24				
25				
26				

* Contact SMO and attach record of resolution

Reviewed By SC	Logbook No.
Date 10·10·19	Logbook Page No.

SOM02.4 (10/2016) FORM DC-1

REGION II RST 3 DATA ASSESSMENT REPORT

SITE: TuTu Wellfield Site **SDG No.:** K5311

LAB: Chemtech Consulting Group, Inc., 284 Sheffield Street, Mountainside, New Jersey, 07092

ANALYSIS: Target Compound List (TCL) Volatile Organic Compounds (VOCs)

No. of Samples/Matrix: 5/ Water, 1/Trip Blank

CONTRACTOR: Weston Solutions, Inc., Superfund Technical Assessment & Response Team V (START V)

The following table summarizes the analytical methods used for the requested analysis and the U.S. Environmental Protection Agency, Region II (EPA), data validation standard operating procedures (SOPs) used for data validation.

Analysis	Analytical Method	Data Validation SOP No.
VOCs	CLP SOW SOM02.4_Trace	No. HW-34A (Revision 1), September 2016

All data were found to be valid and acceptable except those analytes which have been rejected, "R" (unusable). Due to various quality control (QC) problems some analytes may have been qualified with a "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: Smita Sumbaly **Date:** 11/13/2019

Verified By: **Date:** 11/13/19

On October 5 and 7, 2019, EPA Region II and START V sampling personnel collected five potable water samples, including one field duplicate, and one trip blank for trace TCL VOC analysis from the TuTu Wellfield Site located in Anna's Retreat, St. Thomas, U.S. Virgin Islands. Within 24 hours of sample collection, the samples were shipped via FedEx under Chain of Custody for the requested analysis to Chemtech Consulting Group, Inc. located at 284 Sheffield Street, Mountainside, New Jersey. The laboratory verified that samples were received intact, properly sealed, and refrigerated. Sample cooler temperatures measured 3.2 Degrees Celsius (°C).

Field Sample ID	Lab Sample ID	Matrix	Analysis	Sampling Date
SDG No.: K5311				
TB-3-191007-01	K5311-01	Trip Blank	TCL VOC	10/07/2019
P0001-SMITH-1101007-01	K5311-02	Water	TCL VOC	10/07/2019
P0002-STEELE-191007-01	K5311-03	Water	TCL VOC	10/07/2019
P0002-STEELE-191007-02[1]	K5311-06	Water	TCL VOC	10/07/2019
P0003-DELEGARD-191007-01	K5311-07	Water	TCL VOC	10/07/2019
P0004-TILLET-101005-01	K5311-08	Water	TCL VOC	10/05/2019
[1] A field duplicate of P0002-STEELE-191007-01				

The current SOP HW-34A (Revision 1) September 2016, USEPA Region II Data Validation SOP for Statement of Work SOM02.4 for evaluating Trace Volatile organic data has been applied.

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. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

2. DEUTERATED MONITORING COMPOUNDS (DMCs)
All samples are spiked with DMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured DMC recoveries were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

3. MATRIX SPIKE/ MATRIX SPIKE DUPLICATE (MS/MSD) RECOVERY:
MS/MSD data is generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other QC criteria for additional qualification of data.

Sample P0002-STEELE-191007-01 was used for MS/MSD analyses. No problems were found for this criterion.

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. Depending on the amount of contamination present in the QA blanks, the analytes are qualified as non-detects, "U". Qualifications were applied to the samples and analytes as shown below.

A) Method blank contamination:

No problems were found for this criterion.

B) Trip or Rinse blank contamination:

Chloromethane concentration in trip blank was less than the contract required quantitation limit (CRQL). The chloromethane concentrations in the samples listed below were also reported less than the CRQLs. Detected compounds are qualified U. Non-detected compounds are not qualified. Sample concentrations reported below CRQL have been elevated to the CRQL.

Chloromethane – 'U' qualifier applied to samples P0001-SMITH-1101007-01, P0002-STEELE-191007-01, P0002-STEELE-191007-02, and P0003-DELEGARD-191007-01

Acetone concentration in trip blank was less than 2 times (2x) CRQL. The acetone concentrations in the samples listed below were also reported less than the 2x CRQLs. Detected compounds are qualified U. Non-detected compounds are not qualified. Sample concentrations reported below CRQL have been elevated to the CRQL.

Acetone – P0001-SMITH-1101007-01, P0002-STEELE-191007-01, P0002-STEELE-191007-02, P0003-DELEGARD-191007-01, and P0004-TILLET-101005-01

Toluene, ethylbenzene, o-xylene, m,p-xylene, and styrene were detected less than CRQL in the trip blank. Since, Toluene, ethylbenzene, o-xylene, m,p-xylene, and styrene samples results were non-detect in associated samples, no qualification was required.

D) Storage Blank associated with VOA samples only:

No problems were found for this criterion.

E) Tentatively Identified Compounds:

No problems were found for this criterion.

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 Bromofluorobenzene (BFB). If the mass calibration is in error, all associated data will be classified as unusable "R". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

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 verifications (CCVs) 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 must be $\geq$ 0.05, and $\geq$ 0.01 for the poor performers in both the initial and opening continuing calibrations. For closing continuing calibration response factor for all target compounds must be $\geq$ 0.01. A value < 0.05 for target compounds 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 were found for this criterion.

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 CCV to the mean relative response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD and %D must meet criteria listed in Table 2 of SOP HW-34A. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J". Non-detects are flagged "UJ" for %D values outside criteria only. If %RSD exceeds QC criteria, non-detects may be qualified using professional judgement. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

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 be in the range of 60% - 140 % of the associated continuing calibration internal standard from the associated continuing calibration standard. If the area count is greater than 140%, all positive results quantitated using that IS are qualified as estimated "J-", and non-detects are not qualified. If the area count is less than 60% of the associated standard, all positive results for compounds quantitated with that IS are qualified as estimated "J+" and all non-detects are qualified "R".

If an internal standard retention time varies by more than 20 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

8. FIELD DUPLICATES:
Sample pairs P0002-STEELE-191007-01 and P0002-STEELE-191007-02 were collected and analyzed as an overall indication of precision. This analysis measures both field and laboratory precision. A control limit of 20% for the Relative Percent Difference (RPD) will be used for original and duplicate sample values ≥ five times (5x) the Contract Required Quantitation Limit (CRQL). A control limit of the CRQL will be used if either the sample or duplicate value is < 5x the CRQL. For field duplicate analysis that does not meet the technical criteria, the action was applied to only the field sample and it's duplicate.

Field duplicate sample pairs P0002-STEELE-191007-01 and P0002-STEELE-191007-02 yielded comparable results.

9. COMPOUND IDENTIFICATION:
Target 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 a window of 0.06 RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/z 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. Qualifications were applied to the samples and analytes as shown below.

For all TICs where there was a presumptive evidence of a match as compared to the reference spectra (>85% match), results were qualified as tentatively identified (NJ) with approximated concentrations. TICs identified and reported by the laboratory with a poor match compared to the reference spectra (<85% match) were changed to "Unknown" by the validator and results were qualified as estimated (J) (refer to qualified Form Is).

10. CONTRACT NON-COMPLIANCE:

Due to software limitations, laboratory entered the incomplete sample numbers on Form Is. Data reviewer manually completed the sample numbers on Form is and initialed it

11. FIELD DOCUMENTATION:

The Chain-of-Custody was reviewed; no problems were found.

12. OTHER PROBLEMS:

Tetrachloroethene concentration exceeded the calibration range in sample P0004-TILLET-101005-01. The concentration of the tetrachloroethene was reported from the dilution analysis (P0004-TILLET-101005-01DL).

13. DILUTIONS, RE-EXTRACTIONS & REANALYSIS:
Samples may be reanalyzed after dilution, re-extraction and for other QC reasons. In such cases, the best result values are consolidated in one single report and the other report is marked as not to be used. The following Form 1(s) are not used:

P0004-TILLET-101005-01DL

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATE: October 7, 2019

Matrix	DI Water (Trip Blank)	Water	Water	Water	Water
Field Sample ID	TB-3-191007-01	P0001-SMITH-1101007-01	P0002-STEELE-1101007-01	P0002-STEELE-1101007-02[1]	P0003-DELEGARD-191007-01
Lab Sample ID	K5311-01	K5311-02	K5311-03	K5311-06	K5311-07
Dilution Factor	1	1	1	1	1
Volatile Organic Compounds (ug/L)					
Dichlorodifluoromethane	0.50 U	**1.0**	**0.55**	**0.65**	**1.6**
Chloromethane	**0.12 J**	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl chloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Acetone	**5.3**	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methylene chloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	0.50 U	0.50 U	0.50 U	**0.080 J**	0.50 U
Methyl tert-butyl Ether	0.50 U	**0.19 J**	**0.27 J**	**0.31 J**	0.50 U
1,1-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	0.50 U	**5.0**	**3.4**	**3.8**	**1.0**
2-Butanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	0.50 U	**0.72**	0.50 U	**0.66**	**0.77**
1,1,1-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Carbon tetrachloride	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Benzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	0.50 U	**3.3**	**3.0**	**3.4**	**0.87**
Methylcyclohexane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	**0.45 J**	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	0.50 U	**1.7**	**4.1**	**4.8**	**0.36 J**
2-Hexanone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATE: October 7, 2019

Matrix	DI Water (Trip Blank)	Water	Water	Water	Water
Field Sample ID	TB-3-191007-01	P0001-SMITH-1101007-01	P0002-STEELE-1101007-01	P0002-STEELE-1101007-02[1]	P0003-DELEGARD-191007-01
Lab Sample ID	K5311-01	K5311-02	K5311-03	K5311-06	K5311-07
Dilution Factor	1	1	1	1	1
Ethylbenzene	**0.10 J**	0.50 U	0.50 U	0.50 U	0.50 U
o-xylene	**0.10 J**	0.50 U	0.50 U	0.50 U	0.50 U
m,p-xylene	**0.16 J**	0.50 U	0.50 U	0.50 U	0.50 U
Styrene	**0.19 J**	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Isopropylbenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U

U - non-detected
J-: Estimated for low bias
Results reported to the Reporting Limit
Bolded result - Detected Value
ug/L - micrograms per Liter
[1] Field Duplicate of P0002-STEELE-1101007-01

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATE: October 5, 2019

Matrix	Water
Field Sample ID	P0004-TILLET-101005-01
Lab Sample ID	K5311-08
Dilution Factor	1, *4
Volatile Organic Compounds (ug/L)	
Dichlorodifluoromethane	0.50 U
Chloromethane	0.50 U
Vinyl chloride	0.50 U
Bromomethane	0.50 U
Chloroethane	0.50 U
Trichlorofluoromethane	0.50 U
1,1-Dichloroethene	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U
Acetone	5.0 U
Carbon disulfide	0.50 U
Methyl Acetate	0.50 U
Methylene chloride	0.50 U
trans-1,2-Dichloroethene	0.50 U
Methyl tert-butyl Ether	0.50 U
1,1-Dichloroethane	0.50 U
cis-1,2-Dichloroethene	**5.3**
2-Butanone	5.0 U
Bromochloromethane	0.50 U
Chloroform	0.50 U
1,1,1-Trichloroethane	0.50 U
Cyclohexane	0.50 U
Carbon tetrachloride	0.50 U
Benzene	0.50 U
1,2-Dichloroethane	0.50 U
Trichloroethene	**2.3**
Methylcyclohexane	0.50 U
1,2-Dichloropropane	0.50 U
Bromodichloromethane	0.50 U
cis-1,3-Dichloropropene	0.50 U
4-Methyl-2-pentanone	5.0 U
Toluene	0.50 U
trans-1,3-Dichloropropene	0.50 U
1,1,2-Trichloroethane	0.50 U
Tetrachloroethene	***20**
2-Hexanone	5.0 U
Dibromochloromethane	0.50 U
1,2-Dibromoethane	0.50 U
Chlorobenzene	0.50 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site
SAMPLING DATE: October 5, 2019

Matrix	Water
Field Sample ID	P0004-TILLET-101005-01
Lab Sample ID	K5311-08
Dilution Factor	1, *4
Ethylbenzene	0.50 U
o-xylene	0.50 U
m,p-xylene	0.50 U
Styrene	0.50 U
Bromoform	0.50 U
Isopropylbenzene	0.50 U
1,1,2,2-Tetrachloroethane	0.50 U
1,3-Dichlorobenzene	0.50 U
1,4-Dichlorobenzene	0.50 U
1,2-Dichlorobenzene	0.50 U
1,2-Dibromo-3-chloropropane	0.50 U
1,2,4-trichlorobenzene	0.50 U
1,2,3-Trichlorobenzene	0.50 U

U - non-detected
J-: Estimated for low bias
Results reported to the Reporting Limit
Bolded result - Detected Value
ug/L - micrograms per Liter

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Cover Page

Order ID : K5311

Project ID : RFP 609

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
K5311-01	TB-3-191007-1
K5311-02	P0001-SMITH-1101007-01
K5311-03	P0002-STEELE-191007-01
K5311-04	P0002-STEELE-191007-01MS
K5311-05	P0002-STEELE-191007-01MSD
K5311-06	P0002-STEELE-191007-02
K5311-07	P0003-DELEGARD-191007-01
K5311-08	P0004-TILLET-101005-01
K5311-09	VHBLK01

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

APPROVED

By Nimisha Pandya, QA QC Supervisor at 4:12 pm, Oct 24, 2019

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 609
Project # N/A
Chemtech Project # K5311
Test Name: VOC-Low Level -15

A. Number of Samples and Date of Receipt:
9 Water samples were received on 10/10/2019.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOC-Low Level -15. This data package contains results for VOC-Low Level -15.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_U were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOC-Low Level -15 was based on method SOM02.4_Trace.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the acceptable requirements.
The RPD met criteria.
The Storage blank analysis did not indicate the presence of lab contamination.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

Sample P0004-TILLET-101005-01 was diluted due to high concentration.

Calculation:
Concentration in ug/L = $\frac{(Ax)\,(Is)\,(DF)}{(Ais)\,(RRF)\,(Vo)}$

Where,

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Ax = Area of the characteristic ion (EICP) for the compound to be measured.
Ais = Area of the characteristic ion (EICP) for the internal standard.
Is = Amount of internal standard added in ng.
RRF = Mean Relative Response Factor from the initial calibration standard.
Vo = Total volume of water purged, in mL.
DF = Dilution Factor.

F. Manual Integration comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integration performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _ N. N. Pandya

APPROVED
By Nimisha Pandya, QA QC Supervisor at 4:12 pm, Oct 24, 2019

SAMPLE DATA

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
TB-3-191007-1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035153.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.12	J
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.3	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
TB-3-191007-1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035153.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.45	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.10	J
95-47-6	o-Xylene	0.10	J
179601-23-1	m,p-Xylene	0.16	J
100-42-5	Styrene	0.19	J
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
TB-3-191007-1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035153.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
TB-3-191007-1

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-01
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035153.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/14/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000141-78-6	Ethyl Acetate	4.38	0.52	JN
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0001-SMITH-110100 7-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035147.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	1.0	
74-87-3	Chloromethane	~~0.12~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~2.0~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.19	J
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	5.0	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.72	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	3.3	

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0001-SMITH-110100 7-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035147.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.7	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0001-SMITH-110100 7-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-02
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035147.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
P0001-SMITH-1101007-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5311
Level :
Lab Sample ID : K5311-02
Lab File ID : VU035147.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/14/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0002-STEELE-19100

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035148.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.55	
74-87-3	Chloromethane	0.17 0.50	J U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	3.4 5.0	J U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.27	J
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	3.4	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	3.0	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0002-STEELE-191007-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035148.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	4.1	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0002-STEELE-191007-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035148.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
P0002-STEELE-191007-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-03
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035148.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/14/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0002-STEELE-19100

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035163.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.65	
74-87-3	Chloromethane	~~0.31~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~4.1~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.080	J
1634-04-4	Methyl tert-butyl Ether	0.31	J
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	3.8	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.66	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	3.4	

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0002-STEELE-19100702

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035163.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	4.8	
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0002-STEELE-191007-02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035163.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
P0002-STEELE-191007-02

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-06
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035163.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/14/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0003-DELEGARD-191007-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035164.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	1.6	
74-87-3	Chloromethane	~~0.24~~ 0.50	~~J~~ U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~3.1~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.0	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.77	
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.87	

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FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0003-DELEGARD-191007

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035164.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.36	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0003-DELEGARD-191007-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035164.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
P0003-DELEGARD-191007-01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-07
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035164.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/14/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0004-TILLET-10100

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035165.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	~~2.3~~ 5.0	~~J~~ U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	5.3	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	2.3	

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0004-TILLET-10100 5-01 RE

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035165.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	23 * 20	E
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

* 4xDIF - Value from first run of the dilution analysis. 10/14/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0004-TILLET-10100

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-08
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035165.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/14/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
P0004-TILLET-101005-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5311
Level :
Lab Sample ID : K5311-08
Lab File ID : VU035165.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/14/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	001717-00-6	1,1-Dichloro-1-fluoroethane	2.07	0.86	JN
2	E966796	Total Alkanes	N/A	0.0	

10/31/19

EPA-designated Registry Number.

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0004-TILLET-10100

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-08DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035186.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/15/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 4.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	2.0	U
74-87-3	Chloromethane	2.0	U
75-01-4	Vinyl chloride	2.0	U
74-83-9	Bromomethane	2.0	U
75-00-3	Chloroethane	2.0	U
75-69-4	Trichlorofluoromethane	2.0	U
75-35-4	1,1-Dichloroethene	2.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U
67-64-1	Acetone	4.5	JD
75-15-0	Carbon disulfide	2.0	U
79-20-9	Methyl Acetate	2.0	U
75-09-2	Methylene chloride	2.0	U
156-60-5	trans-1,2-Dichloroethene	2.0	U
1634-04-4	Methyl tert-butyl Ether	2.0	U
75-34-3	1,1-Dichloroethane	2.0	U
156-59-2	cis-1,2-Dichloroethene	4.9	D
78-93-3	2-Butanone	20	U
74-97-5	Bromochloromethane	2.0	U
67-66-3	Chloroform	2.0	U
71-55-6	1,1,1-Trichloroethane	2.0	U
110-82-7	Cyclohexane	2.0	U
56-23-5	Carbon tetrachloride	2.0	U
71-43-2	Benzene	2.0	U
107-06-2	1,2-Dichloroethane	2.0	U
79-01-6	Trichloroethene	2.1	D

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0004-TILLET-10100

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-08DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035186.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/15/2019
Extract Concentrated : (Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 4.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L, mg/L, µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	2.0	U
78-87-5	1,2-Dichloropropane	2.0	U
75-27-4	Bromodichloromethane	2.0	U
10061-01-5	cis-1,3-Dichloropropene	2.0	U
108-10-1	4-Methyl-2-pentanone	20	U
108-88-3	Toluene	2.0	U
10061-02-6	trans-1,3-Dichloropropene	2.0	U
79-00-5	1,1,2-Trichloroethane	2.0	U
127-18-4	Tetrachloroethene	20	D
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	2.0	U
106-93-4	1,2-Dibromoethane	2.0	U
108-90-7	Chlorobenzene	2.0	U
100-41-4	Ethylbenzene	2.0	U
95-47-6	o-Xylene	2.0	U
179601-23-1	m,p-Xylene	2.0	U
100-42-5	Styrene	2.0	U
75-25-2	Bromoform	2.0	U
98-82-8	Isopropylbenzene	2.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U
541-73-1	1,3-Dichlorobenzene	2.0	U
106-46-7	1,4-Dichlorobenzene	2.0	U
95-50-1	1,2-Dichlorobenzene	2.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.0	U
120-82-1	1,2,4-trichlorobenzene	2.0	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
P0004-TILLET-10100

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-08DL
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035186.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/15/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 4.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	2.0	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
P0004-TILLET-101005-01DL

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 609
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
Extract Concentrated : (Y / N)
Soil Aliquot (VOA) : (µL)
Heated Purge : (Y / N) N
Purge Volume : 25 (mL)
Cleanup Types :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

Contract : EPW14030
MA No. : SDG No.: K5311
Level :
Lab Sample ID : K5311-08DL
Lab File ID : VU035186.D
Date Received : 10/10/2019
Date Extracted :
Date Analyzed : 10/15/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 4.0
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

10/31/19

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035187.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/15/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl Ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035187.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/15/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-trichlorobenzene	0.50	U

FORM 1A-OR
ORGANIC ANALYSIS DATA SHEET
TARGET ANALYTE LIST

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : 0101720 SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035187.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
GC Column : ID : (mm)
Date Analyzed : 10/15/2019
Extract Concentrated :(Y / N)
Extract Volume : (µL)
Soil Aliquot (VOA) : (µL)
Extraction Type : PT
Heated Purge : (Y / N) N
Injection Volume : (µL)
Purge Volume : 25 (mL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Types :
Cleanup Factor :
Concentration Units (µg/L,mg/L,µg/kg): µg/L

CAS NO.	ANALYTE	CONCENTRATION	Q
87-61-6	1,2,3-Trichlorobenzene	0.50	U

FORM 1B-OR
ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLK01

Lab Name : Chemtech Consulting Group
Contract : EPW14030
Lab Code: CHM Case No.: RFP 609
MA No. : SDG No.: K5311
Analytical Method : Trace VOA
Level :
Matrix : Water
Lab Sample ID : K5311-09
Sample wt/vol : 25.0 (g/mL): mL
Lab File ID : VU035187.D
% Solids :
Date Received : 10/10/2019
GC Column : DB-624UI ID : 0.18 (mm)
Date Extracted :
Extract Concentrated : (Y / N)
Date Analyzed : 10/15/2019
Soil Aliquot (VOA) : (µL)
Extract Volume : (µL)
Heated Purge : (Y / N) N
Extraction Type : PT
Purge Volume : 25 (mL)
Injection Volume : (µL)
Cleanup Types :
pH : 1.0 Dilution Factor : 1.0
Concentration Units (µg/L,mg/L,µg/kg): µg/L
Cleanup Factor :

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	K5311	**OrderDate:**	10/10/2019 10:03:00 AM
Client:	Weston Solutions, Inc.	**Project:**	RFP 609
Contact:	Smita Sumbaly	**Location:**	

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
K5311-01	**TB-3-191007-1**	**Water**			**10/07/19**			**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace			10/14/19	
K5311-02	**P0001-SMITH-1101007-01**	**Water**			**10/07/19**			**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace			10/14/19	
K5311-03	**P0002-STEELE-191007-01**	**Water**			**10/07/19**			**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace			10/14/19	
K5311-06	**P0002-STEELE-191007-02**	**Water**			**10/07/19**			**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace			10/14/19	
K5311-07	**P0003-DELEGARD-191007-01**	**Water**			**10/07/19**			**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace			10/14/19	
K5311-08	**P0004-TILLET-101005-01**	**Water**			**10/05/19**			**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace			10/14/19	
K5311-08DL	**P0004-TILLET-101005-01DL**	**Water**			**10/05/19**			**10/10/19**
			VOC-Low Level -15	SOM02.4_Trace			10/15/19	
K5311-09	**VHBLK01**	**Water**			**10/10/19**			**10/10/19**

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

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LAB CHRONICLE

VOC-Low Level -15	SOM02.4_Trace	10/15/19

SHIPPING DOCUMENTS

K5311

4

4.1

USEPA
DateShipped: 10/7/2019
CarrierName: FedEx
AirbillNo:

CHAIN OF CUSTODY RECORD
Site #: 021D
Contact Name: joel Siegel
Contact Phone: 732-570-5022

No: 2-100719-101523-0004
Lab: Chemtech Consulting Group
Lab Address: 284 Sheffield Street
Lab Phone: 908-789-8900

Lab #	Sample #	Location	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	TB-3-191007-1	N/A	TCL VOCs	DI Water	10/7/2019	09:05	3	40 ml VOA	HCL, pH<2	N
	P0001-SMITH-1101007-01	P0001-SMITH	TCL VOCs	Potable Water	10/7/2019	08:30	3	40 ml VOA	HCL, pH<2	N
	P0002-STEELE-191007-01	P0002-STEELE	TCL VOCs	Potable Water	10/7/2019	08:57	9	40 ml VOA	HCL, pH<2	Y
	P0002-STEELE-191007-02	P0002-STEELE	TCL VOCs	Potable Water	10/7/2019	08:57	2	40 ml VOA	HCL, pH<2	N
	P0003-DELEGARD-191007-01	P0003- DELEGARD	TCL VOCs	Potable Water	10/7/2019	08:30	3	40 ml VOA	HCL, pH<2	N
	P0004-TILLET-101005-01	P0004-TILLET	TCL VOCs	Potable Water	10/5/2019	11:20	3	40 ml VOA	HCL, pH<2	N

Special Instructions: Detection Limits for these samples are 0.5 ppb as per RFP # 609
Sample P0002-Steele-191007-02 has 2 VOAs due to breakage.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Analysis	[signature] Weston	10/7/19 16:00	[signature]	10-10-19 0915	3.2°C NO TAGS IDEXX #1 custody seals intact Temp Blk. present

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Maine	2012025
Maryland	296
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	K5311 ROYF02	**Order Date :**	10/10/2019 10:03:00 AM	**Project Mgr :**	
Client Name :	Weston Solutions, Inc.	**Project Name :**	RFP 609	**Report Type :**	Level 4
Client Contact :	Smita Sumbaly	**Receive DateTime :**	10/10/2019 9:15:00 AM	**EDD Type :**	Equis Region2(MEDD)
Invoice Name :	Weston Solutions, Inc.	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Smita Sumbaly	**Login Tech :**	Samantha	**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
K5311-01	TB-3-191007-1	Water	10/07/2019	09:05					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5311-02	P0001-SMITH-1101007-01	Water	10/07/2019	08:30					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5311-03	P0002-STEELE-191007-01	Water	10/07/2019	08:57					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5311-04	P0002-STEELE-191007-01MS	Water	10/07/2019	08:57					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5311-05	P0002-STEELE-191007-01MSD	Water	10/07/2019	08:57					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5311-06	P0002-STEELE-191007-02	Water	10/07/2019	08:57					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5311-07	P0003-DELEGARD-191007-01	Water	10/07/2019	08:30					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days
K5311-08	P0004-TILLET-101005-01	Water	10/05/2019	11:20					
					VOC-Low Level -15		SOM02.4_Trace		5 Bus. Days

CHEMTECH

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	K5311 ROYF02	**Order Date :**	10/10/2019 10:03:00 AM	**Project Mgr :**	
Client Name :	Weston Solutions, Inc.	**Project Name :**	RFP 609	**Report Type :**	Level 4
Client Contact :	Smita Sumbaly	**Receive DateTime :**	10/10/2019 9:15:00 AM	**EDD Type :**	Equis Region2(MEDD)
Invoice Name :	Weston Solutions, Inc.	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Smita Sumbaly	**Login Tech :**	Samantha	**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES

Relinquished By :

Date / Time : 10/10/19 1250

Received By :

Date / Time : 10.10.19

Storage Area : VOA Refridgerator Room

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page__of__
Received By (Print Name)		Log-in Date **10/10/2019**
Received By (Signature)		
Case Number RFP 609	SDG No. K5311	MA No. 0101720

Remarks:	
1. Custody Seal (s)	Present, Intact
2. Custody Seal Nos.	N/A
3. Traffic Reports/Chain Of Custody Records	Present
4. Airbill	Present
5. Airbill No.	8147650536050402
6. Sample Tags Sample Tag #	Absent Listed on Traffic Report
7. Sample Condition	Intact
8. Shipping Container Temperature Indicator Bottle	Present
9. Shipping Container Temperature	3.2 Degree C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree ?	Yes
11. Date Received at Lab	10/10/2019
12.Time Received	09:15

	EPA Sample #	Corresponding: Sample Tag #	Corresponding: Assigned Lab #	Remarks: Condition of Sample shipment, etc.
1	TB-3-191007-1		K5311-01	Intact
2	P0001-SMITH-1101007-01		K5311-02	Intact
3	P0002-STEELE-1910007-01		K5311-03	Intact
4	P0002-STEELE-1910007-MS		K5311-04	Intact
5	P0002-STEELE-1910007-MSD		K5311-05	Intact
6	P0002-STEELE-1910007-02		K5311-06	Intact
7	P0003-DELEGARD-191007-01		K5311-07	Intact
8	P0004-TILLET-1010005-01		K5311-08	Intact
9				
10				
11				
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* Contact SMO and attach record of resolution

Reviewed By SC	Logbook No.
Date 10.10.19	Logbook Page No.

SOM02.4 (10/2016) FORM DC-1