

RESIDENTIAL WELL SAMPLING REPORT

TUTU WELLFIELD SITE **St. Thomas, U. S. Virgin Islands**

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

Prepared by:

Superfund Technical Assessment & Response Team V
Weston Solutions, Inc.
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Edison, New Jersey 08837

Prepared for:

U.S. Environmental Protection Agency, Region II
Superfund and Emergency Management Division
2890 Woodbridge Avenue
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August 2019

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1.0 Introduction

On June 4, 2019, the U.S. Environmental Protection Agency, Region II (EPA), Superfund and Emergency Management Division (SEMD) conducted residential well sampling at three properties located downgradient from the Tutu Wellfield Site (the Site) located in St. Thomas U.S. Virgin Island (USVI). As part of Technical Assistance, Weston Solutions, Inc., Removal Support Team 3 (RST 3), currently Superfund Technical Assessment Team V (START V), provided EPA with the necessary field support required to sample the residential wells at the three properties. The water samples collected from the residences 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.

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 (VOCs). The residential wells that were sampled during this investigation include SMITH well, located in Charlotte Amalie, and STEELE and DELEGARD wells located in Anna's Retreat area.

Refer to Attachment A, Figure 1: Site Location Map and Figure 2: Residential Well Location Map

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 tetrachloroethylene (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 groundwater remedy 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.

2.0 Scope of Work

The scope of work for the sampling event included the collection of water samples from taps/faucets associated with the residential wells. The water samples were submitted to the assigned laboratory for target compound list (TCL) VOCs analysis. In addition RST 3 noted all site activities in the Site log book and performed photographic documentation. The well locations were documented using Global Positioning System (GPS) technology.

3.0 On-Site Personnel

Name	Affiliation	Duties On-site
Geoffrey Garrison	EPA, Region II	On-Scene Coordinator
Gezahegne Bushra	EPA, Region II	On-Scene Coordinator
Gabriela Rodriguez	Weston Solutions, Inc., RST 3	Site Project Manager, Site H&S, Sample Collection, QA/QC, and Sample Management
Joel Siegel	Weston Solutions, Inc., RST 3	Sample Collection, GPS, and Sample Management

EPA: U.S. Environmental Protection Agency
H&S: Health and Safety
GPS: Global Positioning System

RST 3: Removal Support Team 3
QA/QC: Quality Control/Quality Assurance

4.0 Site Activities and Observations

On June 4, 2019, EPA On-Scene Coordinators (OSCs) and RST 3 personnel sampled the residential wells (SMITH, STEELE, and DELEGARD) at three properties. The water samples were collected from taps/faucets associated with the residential wells. Two water samples, including one field duplicate, were collected from SMITH well, one water sample each was collected from STEELE and DELEGARD wells. During the sampling event, RST 3 observed and noted that all three well and associated pump systems were in good working condition. The well locations were documented with GPS, and all Site activities were documented in the Site log book and with digital photographs.

Refer to Attachment A, Figure 2: Residential Well Location Map and Attachment C: Photographic Documentation Log.

5.0 Sampling Methodology

All field sampling activities were performed in accordance with 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 RST 3 under the direction of the EPA OSC. Prior to sampling each residential well water supply system, 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. Any 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 milliliter (ml) volatile organic analysis (VOA) vials with Teflon-lined septum caps, preserved with hydrochloric acid (HCl) to pH below 2, and stored immediately following collection to maintain a temperature of 4 degrees Celsius (°C). All the water samples were collected for definitive data objective. For quality assurance/quality control (QA/QC) purposes. All sample information were entered into the EPA SCRIBE database from which sample labels and chain of custody (COC) record was generated. All the water samples and trip blank were submitted to the assigned laboratory for TCL VOCs analysis.

6.0 Laboratory Receiving Samples

The following laboratory was utilized for sample analysis during the June 4, 2019 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 June 5, 2019, RST 3 shipped all four water samples, including one field duplicate (P0001-SMITH-190604-01, P0001-SMITH-190604-02 (field duplicate of P0001-SMITH-190604-01), P0002-STEELE-190604-01, and P0003-DELEGARD-190604-01), and one trip blank (TB-190604) under COC No. 2-060419-0370-0147-0001 via FedEx Airbill No. 812445459082 to Chemtech Consulting Group located in Mountainside, New Jersey for TCL VOCs analysis.

Refer to Attachment D: Chain of Custody Record.

8.0 Analytical Results Summary

The validated analytical results of the water samples were compared with the EPA Maximum Contaminant Levels (MCLs) contained the Drinking Water Standards and Health Advisories (DWSHA), dated March 2018. Based on the validated analytical results, low level concentrations of methyl tert-butyl ether was detected in three water samples, including the field duplicate (P0001-SMITH-190604-01, P0001-SMITH-190604-02, P0002-STEELE-190604-01). Notably, there is no specified EPA MCL for methyl tert-butyl ether. Low level concentrations cis-1,2-dichloroethene, trichloroethene (TCE), and PCE, were detected in all four water samples, including the field duplicate; however, the concentrations of these compounds were well below their respective EPA MCLs.

Based on the validated analytical results, acetone was detected in the trip blank, P0002-STEELE-190604-01 and P0003-DELEGARD-190604-01. Although there is no specified EPA MCL for acetone, the detected concentrations were low; however, the presence of acetone in the trip blank and field samples may be a result of laboratory contamination.

In addition, methylene chloride, ethylbenzene, o-, m-, and p-xylenes, and styrene, were also detected in the trip blank. Although the concentrations of all the detected compound were well below their respective EPA MCLs, the presence of these low level contaminants 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: Residential Well Location Map, Attachment B, Table 1: Validated Residential Well Water Analytical Results Summary Table - TCL VOCs Table.

9.0 Conclusion

On June 4, 2019, EPA and RST 3 completed a residential well sampling event. Two water samples, including one field duplicate, were collected from SMITH well, and one water sample each was collected from STEELE and DELEGARD wells. The water samples were analyzed for TCL VOCs. Analytical results were compared with the EPA MCLs contained in the DWSHA (dated March 2018). Based on the analytical results, low level concentrations of TCL VOCs, including methyl tert-butyl ether, cis-1,2-dichloroethene, TCE, and PCE, were detected; however, the concentrations were well below the EPA MCLs.

Report prepared by:



Gabriela Rodriguez
START V Site Project Manager

08/09/2019

Date

Report reviewed by:



Bernard Nwosu
START V Group Leader

08/09/2019

Date

ATTACHMENT A

Figures

Figure 1: Site Location Map

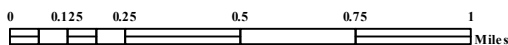
Figure 2: Residential Well Location Map



Legend



Site Location



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 # 68HFD0319D0004
GIS ANALYST: M. MANNINO
EPA OSC: L. DIGUIARDIA
RST SPM: G. RODRIGUEZ-ROSARIO
FILE NAME: 190808_SLM

DATE MODIFIED: 8/9/2019



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend  Well Location  Parcels	 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 2: Residential Well 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. DIGUARDIA RST SPM: RODRIGUEZ-ROSARIO FILENAME: 190808 SmpLoc
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ATTACHMENT B
Tables

Table 1: Validated Residential Well Water Analytical Results Summary Table - TCL VOCs

Table 1: Validated Residential Well Water Analytical Results Summary Table - TCL VOCs

Tutu Wellsfield Site

Anna's Retreat, St. Thomas, U.S. Virgin Island

June 4, 2019

RST 3 Sample Number	EPA MCL ¹	P0001-SMITH-190604-01	P0001-SMITH-190604-02	P0002-STEEL-190604-01	P0003-DELEGARD-190604-01	TB-190604
Sample Matrix		Water	Water	Water	Water	Deionized Water
Sample Source		Residential Well	Residential Well	Residential Well	Residential Well	Trip Blank
TCL VOC						
Dichlorodifluoromethane	NS	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloromethane	NS	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Vinyl chloride	2	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Bromomethane	NS	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Chloroethane	NS	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Trichlorofluoromethane	NS	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,1-Dichloroethene	7	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Acetone	NS	0.96 U	0.96 U	2.3 J	2.4 J	9.1
Carbon disulfide	NS	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methyl Acetate	NS	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Methylene chloride	NS	0.090 U	0.090 U	0.090 U	0.090 U	0.44 J
trans-1,2-Dichloroethene	NS	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methyl tert-butyl Ether	NS	0.17 J	0.16 J	0.28 J	0.080 U	0.080 U
1,1-Dichloroethane	NS	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
cis-1,2-Dichloroethene	70	4.1	3.9	3.5	0.78	0.100 U
2-Butanone	NS	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U
Bromochloromethane	NS	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Chloroform	*	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,1,1-Trichloroethane	200	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Cyclohexane	NS	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Carbon tetrachloride	5	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Benzene	5	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
1,2-Dichloroethane	5	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Trichloroethene	5	2.8	2.7	2.9	0.74	0.090 U
Methylcyclohexane	NS	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,2-Dichloropropane	*	0.080 U	0.080 U	0.080 U	0.08 U	0.080 U
Bromodichloromethane	80	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
cis-1,3-Dichloropropene	NS	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
4-Methyl-2-pentanone	NS	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Toluene	1,000	0.090 U	0.090 U	0.090 U	0.090 U	0.63
trans-1,3-Dichloropropene	NS	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
1,1,2-Trichloroethane	5	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Tetrachloroethene	5	1.5	1.5	4.5	0.28 J	0.080 U
2-Hexanone	*	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dibromochloromethane	80	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
1,2-Dibromoethane	0.05	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
Chlorobenzene	100	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Ethylbenzene	700	0.080 U	0.080 U	0.080 U	0.080 U	0.12 J
o-xylene	NS	0.100 U	0.100 U	0.100 U	0.100 U	0.13 J
m,p-xylene	NS	0.100 U	0.100 U	0.100 U	0.100 U	0.16 J
Styrene	100	0.100 U	0.100 U	0.100 U	0.100 U	0.55
Bromoform	*	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Isopropylbenzene	NS	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,1,2,2-Tetrachloroethane	NS	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,3-Dichlorobenzene	NS	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
1,4-Dichlorobenzene	NS	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichlorobenzene	600	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,2-Dibromo-3-chloropropane	0.2	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
1,2,4-trichlorobenzene	70	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
1,2,3-Trichlorobenzene	NS	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U

Notes:

RST 3 - Removal Support Team 3.

TCL VOC - Target Compound List Volatile Organic Compound.

U - Not Detected, J - Estimated Result, UJ - Estimated at the Detection Limit.

¹U.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.

Results in bold font are detections.

ATTACHMENT C

Photographic Documentation Log

Photographic Documentation Log
Tutu Wellfield Site
Anna's Retreat Area, St. Thomas, U.S. Virgin Island
June 4, 2019



Photograph 1: On June 4, 2019, the U.S. Environmental Protection Agency, Region II (EPA) and Weston Solutions, Inc., Removal Support Team 3 (RST 3), currently Superfund Technical Assessment Team V (START V), conducted residential well sampling at three properties located downgradient from the Tutu Wellfield Site (the Site). Above is a view of the Curriculum Center which is located on-site and has been determined by EPA as the largest contributor to the groundwater contamination plumes. The residential wells that were sampled include SMITH, STEELE, and DELEGARD wells.



Photograph 2: View of SMITH well from which sample P0001-SMITH-190604-01 and field duplicate P0001-SMITH-190604-02 were collected.

Photographic Documentation Log
Tutu Wellfield Site
Anna's Retreat Area, St. Thomas, U.S. Virgin Island
June 4, 2019



Photograph 3: View of the property where the STEELE well sampling port is located from which P0002-STEELE-190604-01 was collected.



Photograph 4: View of the STEELE well system and associated plumbing which runs across the street to the associated residence shown in Photograph 3 above.

Photographic Documentation Log
Tutu Wellfield Site
Anna's Retreat Area, St. Thomas, U.S. Virgin Island
June 4, 2019



Photograph 1: View of the DELEGARD well system location.



Photograph 6: View of the DELGARD well system from which P0003-DELEGARD-190604-01 was collected.

ATTACHMENT D

Chain of Custody Record

ATTACHMENT E

Validated Data Package



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The Trusted Integrator for Sustainable Solutions

REMOVAL SUPPORT TEAM 3
EPA CONTRACT EP-S2-14-01

RST 3-05-F-0100

TRANSMITTAL MEMO

To: Mr. Louis DiGuardia, On-Scene Coordinator
Removal Action Branch
U.S. EPA, Region II

From: Smita Sumbaly, Data Reviewer
RST 3, Region II

Subject: TuTu Wellfield Site
Data Validation Assessment

Date: June 27, 2019

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

- Data validation results for the following parameters:

Volatiles Organic Compounds 5 Samples

- Matrices and Number of Samples

Tap water 4 Samples
Trip Blank 1 Sample

- Sampling Date: June 4, 2019

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

cc: RST 3 SPM: Hector Rodriguez
RST 3 SITE FILE TDD #: TO-0370-0147
RST 3 ANALYTICAL TDD #: TO-0370-0150
TASK#: 5150



U.S. ENVIRONMENTAL PROTECTION AGENCY

MEMORANDUM

DATE: June 27, 2019

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

FROM: Smita Sumbaly
RST 3 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

	<u>TCL VOCs</u>
Acceptable as Submitted	_____
Acceptable with Comments	<u> X </u>
Unacceptable, Action Pending	_____
Unacceptable	_____

Data Reviewed by: Smita Sumbaly 

Date: 6/27/19

Approved By: 

Date: 6/27/19

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

NARRATIVE

PCS No. 5150

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 four tap water samples and one trip blank collected on June 4, 2019 for Target Compound List (TCL) Volatiles (VOC) analysis. The Chemtech Consulting Group, Inc. order number is K3230.

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:

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

Comments:

1. Refer to Data Assessment Narrative.

REGION II RST 3 DATA ASSESSMENT REPORT**SITE:** TuTu Wellfield Site **SDG No.:** K3230**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/Groundwater, 1/Rinsate Blank, 1/Trip Blank**CONTRACTOR:** Weston Solutions, Inc., Removal Support Team 3 (RST 3)

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 0), July 2015

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 Sumbalv **Date:** 6/27/2017**Verified By:** **Date:** 6/27/19

On June 4, 2019, EPA Region II and RST 3 personnel collected four tap 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, these samples were shipped via Fed-Ex 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.: K3230				
P025-SMITH-1906-01	K3230-01	Tap Water	TCL VOC	6/04/2019
P025-SMITH-1906-02 ¹	K3230-02	Tap Water	TCL VOC	6/04/2019
P020-STEEL-1906-01	K3230-03	Tap Water	TCL VOC	6/04/2019
P028-DELEG-1906-01	K3230-04	Tap Water	TCL VOC	6/04/2019
TB-190604	K3230-05	Trip Blank	TCL VOC	6/04/2019
¹ A field duplicate of P025-SMITH-1906-01				

The current SOP HW-34A (Revision 1) September 2016, USEPA Region II Data Validation SOP for Statement of Work SOM02.2 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 (DMC's)

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 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 or Rinse blank contamination:

Methylene chloride, toluene, ethylbenzene, o-xylene, m,p-xylene, and styrene were detected less than contract required quantitation limit (CRQL) and/or 2x CRQL in the trip blank. Since, associated sample results were non-detect, no qualification was required.

Acetone was detected above the CRQL but less than 2x CRQL in the trip blank. Detected acetone results less than the 2x CRQL were qualified as non-detect (U) at the CRQL concentration. Non-detected compounds were not qualified.

Acetone – P020-STEEL-1906-01 and P028-DELEG-1906-01

D) Storage Blank associated with VOA samples only:

The following sample had common contaminant analyte concentrations reported less than 2x CRQL. The associated storage blank (VHBLK01) had common contaminant analyte acetone concentration less than 2x CRQL. Acetone was previously qualified due to trip blank contamination, no further qualification was required.

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:

All VOC results in sample P025-SMITH-1906-01 and its field duplicate P025-SMITH-1906-02 were comparable.

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 (greater than or equal to [$\geq$] 85% match), results were qualified as tentatively identified (JN) with approximated concentrations. TICs identified and reported by the laboratory with a poor match compared to the reference spectra (less than [$<$] 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:

On June 5, 2019 four field samples and one trip blank were submitted to Chemtech for VOC analysis. On June 14, 2019, laboratory requested to provide abbreviated/shortened sample IDs for the four field samples as the current IDs were too long for Chemtech's system to process. Laboratory requested that the sample IDs should be 18 characters or less. Data reviewer contacted Site Project Manager, received the revised chain of custody record with new sample ID numbers and forwarded to the lab. The new sample ID numbers are listed below:

Sample number P0002-STEELE-190604-01 was changed to P020-STEEL-1906-01

Sample number P0001-SMITH-190604-01 was changed to P025-SMITH-1906-01
Sample number P0001-SMITH-190604-02 was changed to P025-SMITH-1906-02
Sample number P0003-DELEGARD-190604-01 was changed to P028-DELEG-1906-01
Sample number TB-190604 no changes.

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 DATE: June 4, 2019

Matrix Field Sample ID Lab Sample ID Dilution Factor	Tap Water P025-SMITH-1906-01 K3230-01 1	Tap Water P025-SMITH-1906-02 K3230-02 1	Tap Water P020-STEEL-1906-01 K3230-03 1	Tap Water P028-DELEG-1906-01 K3230-04 1	Water (Trip Blank) TB-190604 K3230-05 1
Volatile Organic Compounds (ug/L)					
Dichlorodifluoromethane	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Chloromethane	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Vinyl chloride	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
Bromomethane	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Chloroethane	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Trichlorofluoromethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,1-Dichloroethene	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Acetone	0.96 U	0.96 U	5 U	5 U	9.1
Carbon disulfide	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
Methyl Acetate	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Methylene chloride	0.09 U	0.09 U	0.09 U	0.09 U	0.44 J
trans-1,2-Dichloroethene	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
Methyl tert-butyl Ether	0.17 J	0.16 J	0.28 J	0.08 U	0.08 U
1,1-Dichloroethane	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
cis-1,2-Dichloroethene	4.1	3.9	3.5	0.78	0.1 U
2-Butanone	0.88 U	0.88 U	0.88 U	0.88 U	0.88 U
Bromochloromethane	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Chloroform	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,1,1-Trichloroethane	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
Cyclohexane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Carbon tetrachloride	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Benzene	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
1,2-Dichloroethane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Trichloroethene	2.8	2.7	2.9	0.74	0.09 U
Methylcyclohexane	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichloropropane	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Bromodichloromethane	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
cis-1,3-Dichloropropene	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
4-Methyl-2-pentanone	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Toluene	0.09 U	0.09 U	0.09 U	0.09 U	0.63
trans-1,3-Dichloropropene	0.07 U	0.07 U	0.07 U	0.07 U	0.07 U
1,1,2-Trichloroethane	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U
Tetrachloroethene	1.5	1.5	4.5	0.28 J	0.08 U
2-Hexanone	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dibromochloromethane	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
1,2-Dibromoethane	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U
Chlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

OTHER ANALYTES WORK TABLE

PROJECT: TuTu Wellfield Site

SAMPLING DATE: June 4, 2019

Matrix Field Sample ID Lab Sample ID Dilution Factor	Tap Water P025-SMITH-1906-01 K3230-01 1	Tap Water P025-SMITH-1906-02 K3230-02 1	Tap Water P020-STEEL-1906-01 K3230-03 1	Tap Water P028-DELEG-1906-01 K3230-04 1	Water (Trip Blank) TB-190604 K3230-05 1
Ethylbenzene	0.08 U	0.08 U	0.08 U	0.08 U	0.12 J
o-xylene	0.1 U	0.1 U	0.1 U	0.1 U	0.13 J
m,p-xylene	0.1 U	0.1 U	0.1 U	0.1 U	0.16 J
Styrene	0.1 U	0.1 U	0.1 U	0.1 U	0.55
Bromoform	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
Isopropylbenzene	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,1,2,2-Tetrachloroethane	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,3-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,4-Dichlorobenzene	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
1,2-Dichlorobenzene	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,2-Dibromo-3-chloropropane	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
1,2,4-trichlorobenzene	0.06 U	0.06 U	0.06 U	0.06 U	0.06 U
1,2,3-Trichlorobenzene	0.09 U	0.09 U	0.09 U	0.09 U	0.09 U

MDL - Method Detection Limit

U - non-detected

B - Contamination in method blank

¹ Field Duplicate of P0001-SMITH-190604-01

Cover Page

Order ID : K3230

Project ID : RFP 534

Client : Weston Solutions, Inc.

Lab Sample Number

K3230-01
K3230-02
K3230-03
K3230-04
K3230-05
K3230-07

Client Sample Number

P025-SMITH-1906-01
P025-SMITH-1906-02
P020-STEEL-1906-01
P028-DELEG-1906-01
TB-190604
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 : _____

REVIEWED

By Nimisha Pandya, Data Reviewer at 5:43 pm, Jun 14, 2019

Date: 6/14/2019

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Weston Solutions, Inc.

Project Name: RFP 534

Project # N/A

Chemtech Project # K3230

Test Name: VOC-Low Level -15

A. Number of Samples and Date of Receipt:

6 Water samples were received on 06/06/2019.

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_V were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The 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 indicate the presence of Acetone [2.2 ug/L] FileID: VV011287.D {VHBLK01} lab contamination. As per method, less than 2 times the respective CRQL is allowed to fail for Acetone. Therefore no further corrective action was taken..

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Calculation:

$$\text{Concentration in ug/L} = \frac{(A_x) (I_s) (D_F)}{(A_{is}) (RRF) (V_o)}$$

Where,

A_x = Area of the characteristic ion (EICP) for the compound to be measured.

A_{is} = Area of the characteristic ion (EICP) for the internal standard.

I_s = Amount of internal standard added in ng.

RRF = Mean Relative Response Factor from the initial calibration standard.

V_o = Total volume of water purged, in mL.

D_F = Dilution Factor.

E. Additional Comments:**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 _____

REVIEWED*By Nimisha Pandya, Data Reviewer at 5:43 pm, Jun 14, 2019*

SAMPLE DATA

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

EPA SAMPLE NO.

P025-SMITH-1906-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL) : mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-01
Lab File ID : VV011251.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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	0.17	J
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	4.1	
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	2.8	

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

EPA SAMPLE NO.

P025-SMITH-1906-01

3

B

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-01
Lab File ID : VV011251.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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	1.5	
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.

P025-SMITH-1906-01

3

B

Lab Name : Chemtech Consulting Group

Contract : EPW14030

Lab Code: CHM Case No.: RFP 534

MA No. : SDG No.: K3230

Analytical Method : Trace VOA

Level :

Matrix : Water

Lab Sample ID : K3230-01

Sample wt/vol : 25.0 (g/mL): mL

Lab File ID : VV011251.D

% Solids :

Date Received : 06/06/2019

GC Column : DB-624UI ID : 0.18 (mm)

Date Extracted :

GC Column : ID : (mm)

Date Analyzed : 06/06/2019

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.

P025-SMITH-1906-01

3

B

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
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.: K3230
Level :
Lab Sample ID : K3230-01
Lab File ID : VV011251.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
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	000075-45-6	Difluorochloromethane	1.14	10	JN
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

Form 1B-OR

SOM02.4 (10/2016)

K3230

10 of 38

6/11/19

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

EPA SAMPLE NO.

P025-SMITH-1906-02

3

B

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-02
Lab File ID : VV011252.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
Extract Volume : (μL)
Extraction Type : PT
Injection Volume : (μL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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	0.16	J
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	3.9	
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.

P025-SMITH-1906-02

3

B

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-02
Lab File ID : VV011252.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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	1.5	
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.

P025-SMITH-1906-02

3

B

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-02
Lab File ID : VV011252.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
Extract Volume : (μL)
Extraction Type : PT
Injection Volume : (μL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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.

P025-SMITH-1906-02

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
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.: K3230
Level :
Lab Sample ID : K3230-02
Lab File ID : VV011252.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
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	000075-45-6	Difluorochloromethane	1.14	10	JN
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

Form 1B-OR

SOM02.4 (10/2016)

K3230

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

EPA SAMPLE NO.

P020-STEEL-1906-01

3

B

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-03
Lab File ID : VV011253.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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	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	0.28	J
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	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	2.9	

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

EPA SAMPLE NO.

P020-STEEL-1906-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-03
Lab File ID : VV011253.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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	4.5	
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.

P020-STEEL-1906-01

3

B

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-03
Lab File ID : VV011253.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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.

P020-STEEL-1906-01

3

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
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.: K3230
Level :
Lab Sample ID : K3230-03
Lab File ID : VV011253.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

B

	CAS NO.	ANALYTE	RT	EST. CONC.	Q
1	000075-45-6	Difluorochloromethane	1.14	9.6	JN
2	000141-78-6	Ethyl Acetate	4.14	0.89	JN
3	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

Form 1B-OR

SOM02.4 (10/2016)

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

EPA SAMPLE NO.

P028-DELEG-1906-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids : _____
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : _____ ID : _____ (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.: K3230
Level : _____
Lab Sample ID : K3230-04
Lab File ID : VV011254.D
Date Received : 06/06/2019
Date Extracted : _____
Date Analyzed : 06/06/2019
Extract Volume : _____ (µL)
Extraction Type : PT
Injection Volume : _____ (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor : _____

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	2.4	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	0.78	
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	0.74	

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

EPA SAMPLE NO.

P028-DELEG-1906-01

3

B

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-04
Lab File ID : VV011254.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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	0.28	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.

P028-DELEG-1906-01

3

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids : _____
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : _____ ID : _____ (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.: K3230
Level : _____
Lab Sample ID : K3230-04
Lab File ID : VV011254.D
Date Received : 06/06/2019
Date Extracted : _____
Date Analyzed : 06/06/2019
Extract Volume : _____ (µL)
Extraction Type : PT
Injection Volume : _____ (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor : _____

B

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.

P028-DELEG-1906-01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
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.: K3230
Level :
Lab Sample ID : K3230-04
Lab File ID : VV011254.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/06/2019
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	000075-45-6	Difluorochloromethane	1.14	19	JN
2	E966796	Total Alkanes	N/A	0.0	

EPA-designated Registry Number.

Form 1B-OR

SOM02.4 (10/2016)

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

EPA SAMPLE NO.

TB-190604

3

B

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-05
Lab File ID : VV011286.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/07/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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	9.1	
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl Acetate	0.50	U
75-09-2	Methylene chloride	0.44	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	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-190604

3

B

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-05
Lab File ID : VV011286.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/07/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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	0.63	
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	0.12	J
95-47-6	o-xylene	0.13	J
179601-23-1	m,p-xylene	0.16	J
100-42-5	Styrene	0.55	
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-190604

3

B

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-05
Lab File ID : VV011286.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/07/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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-190604

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
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.: K3230
Level :
Lab Sample ID : K3230-05
Lab File ID : VV011286.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/07/2019
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	000066-25-1	Hexanal <i>UNKNOWN</i>	8.28	0.91	JN
2	E966796	Total Alkanes	N/A	1.4	

EPA-designated Registry Number.

Form 1B-OR

SOM02.4 (10/2016)

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6/20/19

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

EPA SAMPLE NO.

VHBLK01

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-07
Lab File ID : VV011287.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/07/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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	2.2	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.

VHBLK01

3

B

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-07
Lab File ID : VV011287.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/07/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

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

3

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
Analytical Method : Trace VOA
Matrix : Water
Sample wt/vol : 25.0 (g/mL): mL
% Solids :
GC Column : DB-624UI ID : 0.18 (mm)
GC Column : ID : (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.: K3230
Level :
Lab Sample ID : K3230-07
Lab File ID : VV011287.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/07/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

B

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

3

Lab Name : Chemtech Consulting Group
Lab Code: CHM Case No.: RFP 534
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.: K3230
Level :
Lab Sample ID : K3230-07
Lab File ID : VV011287.D
Date Received : 06/06/2019
Date Extracted :
Date Analyzed : 06/07/2019
Extract Volume : (µL)
Extraction Type : PT
Injection Volume : (µL)
pH : 1.0 Dilution Factor : 1.0
Cleanup Factor :

B

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

EPA-designated Registry Number.

Form 1B-OR

SOM02.4 (10/2016)

SHIPPING DOCUMENTS

DateShipped: 6/5/2019
CarrierName: FedEx
AirbillNo: 812445459082

CHAIN OF CUSTODY RECORD

Site #: 021D
Contact Name: Hector Rodriguez
Contact Phone: 787-602-8424

No: 2-060419-0370-0147-0001

Lab: Chemtech Consulting Group
Lab Address: 284 Sheffield Street
Lab Phone: 908-789-8900

[illegible]

Special Instructions: Email results to S.Sumbaly@WestonSolutions.com, Hector.Rodriguez-Cesani@WestonSolutions.com, Ben.Nwosu@WestonSolutions.com

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 franchise	Shirley Rodriguez, Weston Solutions	June 05, 2019 11:30 AM			

FedEx International Air Waybill

Express

Origin Copy



1 From
 Date: 6/3/19 Sender's FedEx Account Number: 402 456103
 Sender's Name: [Handwritten] Phone: 1-713-65-9246
 Company: [Handwritten]
 Address: [Handwritten]
 Address: [Handwritten]
 City: [Handwritten] State/Province: [Handwritten]
 Country: [Handwritten] ZIP Postal Code: [Handwritten]
 Email Address: [Handwritten]
 Internal Billing Reference: [Handwritten]

2 To
 28 ☐ Residential Delivery
 Recipient's Name: [Handwritten] Phone: [Handwritten]
 Company: [Handwritten]
 Address: [Handwritten]
 Address: [Handwritten]
 City: [Handwritten] State/Province: [Handwritten]
 Country: [Handwritten] ZIP Postal Code: [Handwritten]
 Email Address: [Handwritten]
 Recipient's Tax ID Number for Customs Purposes: [Handwritten]

3 Shipment Information
 Total Packages: [Handwritten] Total Weight: [Handwritten] lbs. kg. DIM: [Handwritten]
 Shipper's Last and Count/SLAC: [Handwritten]

Commodity Description	Hazardous Code	Country of Manufacture	Value for Customs
[Handwritten]			

 Total Declared Value for Carriage: [Handwritten]
 Total Value for Customs (Specify Currency): [Handwritten]
 Has EEI been filed in AES? ☐ No EEI required, value \$2,500 or less per Sch. B Number; no license required (NLR), not subject to ITAT.
 For U.S. Export Only: Check One ☐ No EEI required, enter exemption number: [Handwritten] ☐ If other than NLR, enter License Exception: [Handwritten]
☐ Yes - Enter: AES proof of filing citation: [Handwritten]

FedEx Tracking Number: 8124 4545 9082 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: [Handwritten]

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
 Specify Currency: [Handwritten]
 FedEx Acct. No.: [Handwritten]
 Credit Card Exp. Date: [Handwritten]
 Signature: [Handwritten]

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: [Handwritten]
 Recipient's Signature: [Handwritten]

Origin Station ID SITA	Country Code/Destination Station ID KBCA	URSA Routing XA KBCA	Handling Units Total Volume (cm) [Handwritten]
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: [Handwritten] Exp. #:	Declared Val. Chrg. Audit Exp. #:	ODA/GPA Date: [Handwritten] Time: [Handwritten]	Credit Card Auth. Del. Courier Exp. # Date Time

PACKAGE LABEL

COMMERCIAL INVOICE LABEL

ORIGIN RETURN LABEL

DELIVERY RETURN LABEL

280654545218

812445459082

812445459082

From: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Sent: Friday, June 14, 2019 3:04 PM
To: s.chaim@chemtech.net
Cc: 'kurt'
Subject: RE: k3230 - RFP 534
Attachments: 190604_COC_RFP_534_updated.pdf, 190604_COC_RFP_534_updated.pdf

Steve

The attached COC has been revised as requested by the lab per email below.

Please note the following changes:

Sample number P0002-STEEL-190604-01 was changed to P020-STEEL-1906-01
Sample number P0001-SMITH-190604-01 was changed to P025-SMITH-1906-01
Sample number P0001-SMITH-190604-02 was changed to P025-SMITH-1906-02
Sample number P0003-DELEGARD-190604-01 was changed to P028-DELEG-1906-01
Sample number TB-190604 no changes.

Please let me know if you have any questions.

Thanks,

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: Friday, June 14, 2019 10:05 AM
To: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Cc: 'kurt' <kurt@Chemtech.net>
Subject: RE: k3230 - RFP 534

**** External Email ****

Thank you.

Regards,

Steven Chaimowitz
Project Manager

CHEMTECH

284 Sheffield St. | Mountainside, NJ 07092

From: Sumbaly, Smita [<mailto:S.Sumbaly@WestonSolutions.com>]
Sent: Friday, June 14, 2019 9:53 AM
To: s.chaim@chemtech.net
Cc: 'kurt' <kurt@Chemtech.net>
Subject: RE: k3230 - RFP 534

Steven – I spoke to our IT personnel about below issue and once he will fix it, I will let you know.

Thanks,
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: Friday, June 14, 2019 8:48 AM
To: Sumbaly, Smita <S.Sumbaly@WestonSolutions.com>
Cc: 'kurt' <kurt@Chemtech.net>
Subject: k3230 - RFP 534

**** External Email ****

Good morning,

Please see the attached. Please provide abbreviated/shortened sample IDs for samples 1-4 as the current IDs are too long for Chemtech's system to process. Please provide sample IDs with 18 characters or less. 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](#)

CHEMTECH

284 Sheffield Street,
Mountainside, New Jersey 07092
Phone: (908) 789 8100
Fax: (908) 789 8122



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Order ID : K3230	ROYF02	Order Date : 06/04/2019	Project Mgr :
Client Name : Weston Solutions, Inc.		Project Name : RFP 534	Report Type : Level 4
Client Contact : Hector Rodriguez		Receive DateTime : 6/6/2019 9:20:00 AM	EDD Type : Equis Region2(MEDD)
Invoice Name : Weston Solutions, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Hector Rodriguez		Login Tech : NILESH	Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	COMMET	FAX DATE	DUE DATES
K3230-01	01-SMITH-190604	Water	06/04/2019	08:15	VOC-Low Level -15		SOM02.4_Trace	3 Bus. Days		
K3230-02	01-SMITH-190604	Water	06/04/2019	08:20	VOC-Low Level -15		SOM02.4_Trace	3 Bus. Days		
K3230-03	02-STEELE-19060	Water	06/04/2019	09:40	VOC-Low Level -15		SOM02.4_Trace	3 Bus. Days		
K3230-04	-DELEGARD-1906	Water	06/04/2019	16:08	VOC-Low Level -15		SOM02.4_Trace	3 Bus. Days		
K3230-05	TB-190604	Water	06/04/2019	08:00	VOC-Low Level -15		SOM02.4_Trace	3 Bus. Days		
								TB		

Relinquished By : 

Date / Time : 6/6/19 12:00

Received By : 

Date / Time : 6-6-19 12:05

Storage Area : VOA Refridgerator Room

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name CHEMTECH CONSULTING GROUP		Page ___ of ___
Received By (Print Name) <u>Cassanova P. Rea</u>		Log-in Date 6/6/2019
Received By (Signature) <u>[Signature]</u>		
Case Number RFP 534	SDG No. K3230	MA No. 0100608

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.	812445459082
6. Sample Tags	Absent
Sample Tag #	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	06/06/2019
12. Time Received	09:20

	EPA Sample #	Corresponding		Remarks: Condition of Sample shipment, etc.
		Sample Tag #	Assigned Lab #	
1	P0001-SMITH-190	P025-SMITH-1906-01	SC 6-14-19 K3230-01	Intact
2	P0001-SMITH-190	P025-SMITH-1906-02	SC 6-14-19 K3230-02	Intact
3	P0002-STEEL-10	P020-STEEL-1906-01	SC 6-14-19 K3230-03	Intact
4	P0003-DELEGARD	P020-DELEGARD-1906-01	K3230-04	Intact
5	TB-190604	SC 6-14-19	K3230-05	Intact
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
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23				
24				
25				
26				

* Contact SMO and attach record of resolution

Reviewed By <u>SC</u>	Logbook No. <u>[Signature]</u>
Date <u>6-6-19</u>	Logbook Page No. <u>[Signature]</u>

SOM02.4 (10/2016)

FORM DC-1