SITE MANAGEMENT

2018 ANNUAL REPORT

WORK ASSIGNMENT D007622-08.1

STUART OLVER HOLTZ SITE — SITE NO. 828079
HENRIETTA (T) — MONROE (C), NY

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Basil Seggos, Commissioner

DIVISION OF ENVIRONMENTAL REMEDIATION

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OCTOBER 2018

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2018 ANNUAL REPORT
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SITE # 828079

TOWN OF HENRIETTA, MONROE COUNTY, NEW YORK

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257 WEST GENESEE STREET

BUFFALO, NEW YORK 14202

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1.0 INTRODUCTION

1.1 General

This Site Management Annual Report for the calendar year 2018 has been prepared under New York State Department of Environmental Conservation (NYSDEC) Work Assignment No. D007622-08.1 for the Stuart Olver Holtz Site (Site). The purpose of this report is to provide a record of the post-remediation monitoring and maintenance activities at the Site. The May 2018 sampling event is the first post-remediation monitoring event since remedial activities were completed in 2016. This report is the first report as called for by Section 7.1 of the Site Management Plan (SMP) (URS, 2018).

1.2 Project Background

The Site is listed on the NYSDEC's registry of inactive hazardous waste sites as Site #828079. A Remedial Investigation (RI) was completed in September 1996; the Feasibility Study (FS) was completed in October 1996; and a Record of Decision (ROD) was issued on March 31, 1997. In October 2005, the NYSDEC issued an Explanation of Significant Differences (ESD), modifying the ROD. A Supplemental Investigation Summary Report was issued in April 2009; a Focused FS was issued in January 2014, and remedial actions were undertaken in two phases at the Site during the period of April 2011 through October 2016. Additional background information for the Site and a summary of the completed remedial actions are provided in Section 2.0.

2.0 SITE DESCRIPTION

The Site is located at 39 Commerce Drive in the Town of Henrietta, Monroe County, New York (Figure 1). The Site is comprised of two parcels, identified as section, block, lot numbers 161.15-1-4 and 161.15-1-5 on the Monroe County Tax Map. The Site is an approximately 3.8-acre area and is bounded by Commerce Drive to the north, various commercial properties on West Henrietta Road to the east, Ruby Gordon Furniture Store to the south, and Pullman Manufacturing to the west (Figure 2). The east branch of Red Creek, which flows north at its nearest point to the Site, is approximately 700 feet to the east.

A single story 64,000 square-foot building was previously located on the eastern portion of the Site. The building was demolished in December 2005, but the concrete slab was left in place. The remaining portions of the Site consist of parking areas/driveways, grass-covered areas and weeds/scrub/brush-covered areas. A vegetated drainage swale is located just beyond the west property boundary. Trees along the south property boundary were planted in October 2016 as part of Site remediation.

An RI/FS was completed at the Site in the September/October 1996. Chlorinated solvents were identified as contaminants of concern (COCs) in groundwater. The ROD, signed in March 1997, specified that a shallow groundwater collection trench was to be constructed. Collected groundwater would pass through a passive groundwater treatment system and then be discharged to a publicly operated treatment works. The ROD also called for the excavation and off-site disposal of remaining contaminated soil and capping of the area. Periodic sampling of the bedrock groundwater was also required.

The remedial design (RD) began in November of 1999. A pilot test conducted in 2000 evaluated in-situ chemical oxidation (ISCO). The pilot test was determined to be successful, and, based on the results from the pilot study, the ROD was modified in October 2005 by the ESD to include ISCO and bioremediation instead of the pump and treat technology that was included in the 1997 ROD. In order to safely address the source area underneath the building, it was necessary to demolish the structure. Demolition of the building was completed in December 2005.

A supplemental investigation, completed in April 2009, further delineated the source of soil impacts and the groundwater plume. The remedial design included the remedial components presented in the modified ROD. ISCO was started in the summer of 2011. A total of three rounds of injections were completed by November 2011. Groundwater results obtained after each injection indicated that the concentration of chlorinated solvents had decreased. NYSDEC decided to inject molasses to address residual chlorinated solvent contamination. The results of the groundwater samples obtained after the first injection of molasses showed that the contamination concentration has declined significantly at most locations.

A Focused FS was completed in January 2014 to address residual impacts. Based on the findings of the Focused FS, NYSDEC decided to implement an alternative that included additional injections using direct-push techniques to address the remaining contamination. The additional injections were completed in May 2014 and the results from the subsequent groundwater sampling indicated that the concentrations of COCs had decreased except for three locations. Additional sampling was conducted to assess future action. In a February 10, 2014 memo to evaluate the asphalt drainage swale component of the remedy, phytoremediation was selected to address residual groundwater impacts between the Site and the Ruby Gordon Furniture Store. Thirty trees were planted along the south property boundary in October 2016.

In April 2018, an SMP was prepared that outlines annual Site inspection and groundwater monitoring requirements (URS, 2018). The activities discussed below are the procedures and resulting data from the 2018 annual Site inspection and groundwater monitoring event.

3.0 MONITORING ACTIVITIES

Monitoring activities performed on May 2, 2018 consisted of the collection of groundwater samples from 21 on-site and four off-site overburden monitoring wells (Figure 3).

3.1 Groundwater Monitoring

Groundwater level measurements, recorded prior to sampling, are provided in Table 1. A potentiometric surface map based on the water level measurements from the overburden wells, using a 2.0-foot contour interval, is provided in Figure 4. Flow is generally from the east to the west, with flow components to the south, west, north, and northwest.

3.2 Groundwater Sampling

The monitoring wells were sampled using HydraSleeve™ or SuperSleeve™ procedures detailed in Field Sampling Plan located in Appendix I of the SMP. Since the sampling method does not require purging until stabilization, water quality parameters (i.e., pH, temperature, specific conductivity, dissolved oxygen, turbidity, and oxygen reduction potential) were not collected. A copy of the sampling field notes is provided in Appendix A.

The groundwater samples were delivered by URS under chain-of custody to the NYSDEC call-out laboratory, TestAmerica Laboratories, Inc. (TestAmerica), located in Amherst, New York. The groundwater samples were analyzed for target compound list volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C.

Groundwater samples from upgradient (URS-08 and URS-09); source area (URS-02, URS-03, URS-15, SW-32, and SW-33); and downgradient (URS-04, URS-05, and URS-13) monitoring wells were also analyzed for emerging contaminants as follows:

- Per- and polyfluoroalkyl substances (PFASs) by USEPA Method 537, modified; and
- 1,4-dioxane by Method 8260C selected ion monitoring.

Samples for 1,4-dioxane and PFAS were shipped by TestAmerica Amherst to the TestAmerica Edison, New Jersey and West Sacramento, California facilities, respectively. Each

TestAmerica facility is New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) accredited for the analytical parameters performed.

A sample could not be collected from URS-04 due to an obstruction just below the top of water. Due to the limited volume collected using the SuperSleeve™, PFAS was the only parameter submitted for analysis from URS-09.

NYSDEC Analytical Services Protocol Category B data deliverables provided by the laboratory were validated by URS in accordance with the requirements outlined in *Guidance for Data Deliverables and the Development of Data Usability Summary Reports (DUSR), Appendix 2B, DER-10/Technical Guidance for Site Investigation and Remediation* (NYSDEC, 2010). Data summary tables and Form Is are provided in the DUSR prepared by URS and include the reporting limit for each non-detected compound. A copy of the DUSR is provided in Appendix B. An electronic data deliverable was submitted to the NYSDEC in the NYSDEC's EQuIS format.

3.2.1 Groundwater Results

A summary of the detected VOCs in the May 2018 groundwater samples are provided in Table 2 and the emerging contaminant results are provided in Table 3. The data in Table 2 are compared to Class GA groundwater standards and guidance values as presented in the *Technical and Guidance Series (TOGS 1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations* (NYSDEC 1998; revised April 2000 and June 2004). The data in Table 3 are compared to USEPA Advisory Limits (USEPA, 2016). Results exceeding TOGS 1.1.1 Class GA groundwater standards or guidance values and EPA Advisory Limits are indicated with a circle. The locations of detected compounds that have exceeded their respective criteria are shown on Figure 5. A statistical summary of detected compounds in groundwater is provided in Table 4.

The analytical results for the May 2018 monitoring event are summarized as follows:

- The following compounds exceeded TOGS 1.1.1 Class GA groundwater standards at one or more location: 1,1,1-trichloroethane (1,1,1-TCA); 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113); 1,1-dichloroethane (1,1-DCA); 1,1-dichloroethene (1,1-DCE); 1,2-dichloroethane (1,2-DCA); cis-1,2-dichloroethene (cis-1,2-DCE); trans-

1,2-dichloroethene (trans-1,2-DCE); chloroethane (CA); tetrachloroethene (PCE); trichloroethene (TCE); and vinyl chloride (VC). Per the ROD, all the compounds listed above, except CFC-113 and chloroethane, are considered COCs in groundwater.

- One or more of the above-listed chlorinated VOCs exceeded criteria at the following monitoring well and piezometer locations: B-4/PZ-01; MW-05; OW-03S; OW-04S; OW-05S; OW-06S; OW-07S; SW-32; SW-33; SW-37; URS-01; URS-03; URS-11; URS-15; and URS-16.
- 1,1,1-TCA, PCE, and TCE are considered primary or parent products and the remaining compounds, except CFC-113, are considered degradation or daughter products.
- The highest concentration of 1,1,1-TCA was detected in SW-32 (630,000 µg/L); the highest concentration of PCE was detected in URS-16 (2,600 µg/L), and the highest concentration of TCE was detected in URS-01 (780 µg/L).
- Degradation products of 1,1,1-TCA, PCE, and TCE were detected at concentrations higher than the parent compound concentrations at several locations (OW-03S, OW-06S, OW-07S, SW-33, SW-37, URS-01, URS-11, URS-15 and URS-16).
- The Focused FS defined significant groundwater contamination as generally two or more contaminants with concentrations exceeding 1,000 µg/L. In May 2018, locations with two or more contaminants having concentrations greater than 1,000 µg/L were OW-07S, SW-32, SW-33, SW-37, URS-01, URS-11, URS-15 and URS-16. COCs with concentrations greater than 1,000 µg/L include 1,1,1-TCA, 1,1-DCA, cis-1,2-DCE, chloroethane, PCE, and vinyl chloride.
- In the FS, the remedial treatment zone was defined as all areas with total VOC concentrations above 50,000 µg/L (see Figure 3). In May 2018, total VOCs exceeded 50,000 µg/L only at location SW-32 (720,000 µg/L).
- Compared to historical results, concentrations of COCs decreased at most locations, as shown in Table 5. Locations OW-04S, OW-06S, SW-33, URS-01, URS-03, URS-11, and URS-15 exhibited increased concentrations of degradation products compared to the previous sampling at those locations. 1,1,1-TCA and/or TCE

concentrations increased an order of magnitude or more at locations OW-04S, URS-01, and URS-03.

- 1,4-Dioxane was detected in six of the eight locations sampled for this compound (SW-32, SW-33, URS-02, URS-03, URS-13 and URS-15). Concentrations ranged from 2.2 µg/L (URS-13) to 8,000 µg/L (SW-32). The two locations with highest concentrations, SW-32 and SW-33, are within the treatment zone. The next highest concentration was detected in downgradient well URS-02 (1,800 µg/L). Detected concentrations in the remaining three wells were below 90 µg/L.

  1,4-Dioxane was used as a stabilizer for 1,1,1-TCA (USEPA, 2017). 1,1,1-TCA is a COC at this Site.

- PFASs were detected in every location sampled for this parameter group. Perfluorooctanesulfonic acid (PFOS) was detected above the USEPA Advisory Limit (USEPA, 2016) of 70 nanograms per liter (ng/L) only in URS-09 (187 ng/L). Perfluorooctanonic acid (PFOA) was detected above the USEPA Advisory Limit of 70 ng/L only in URS-13 (112 ng/L). Total PFOA and PFOS in samples SW-33, URS-03, URS-08, URS-09, URS-13 and URS-15 exceeded the USEPA Advisory Limit of 70 ng/L with concentrations ranging from 72.6 (URS-03) to 192 ng/L ((URS-09). The highest individual and total PFOA and PFOS concentrations were detected in upgradient/sidegradient well URS-09 and upgradient well URS-13.

  Historical operations at the Site include metals plating. A major fire at the facility occurred in December 1974 (GZA, 1996). Metals plating facilities and firefighting foams commonly used PFAS-containing formulations (ITRC, 2017).

4.0 SITE MAINTENANCE

4.1 Monitoring Well Inspections

URS performed a well inspection during the May 2018 monitoring event. Most of the wells appeared to be in good condition, with exception of the following:

- The curb box for URS-04 was damaged and needs to be replaced. During sampling, it was also noted that there is an obstruction in the well just below the water table.
- OW-07S has no outer casing, exposing the 4-inch diameter PVC riser and J-Plug. This well needs an outer casing installed.
- B1/PZ-03, OW-07S, OW-04S, URS-05, URS-06 and URS-13 need to be re-labeled.
- The locking cap/cover to URS-09 is detached from the outer well casing. A new exterior wells casing with locking cam needs to be installed.
- The cover to URS-06 is secured with bolts requiring an Allen wrench. These bolts should be replaced with standard stainless steel 9/16" bolts.

The monitoring well inspection forms are provided in Appendix C.

4.2 Site Inspection

URS performed a Site inspection during the May 2018 Site visit. The inspection included an examination of the following items: evidence of site-wide disturbance, evidence of surface soil disturbance, evidence of excavation, evidence of building construction, and evidence of change in Site use. There was no evidence of site-wide disturbance, surface soil disturbance, excavation, building construction, or change in Site use. All items associated with the inspection were found to be in good order. A copy of the completed Site inspection form is provided in Appendix D.

4.3 Maintenance Performed

4.3.1 Monitoring Well Maintenance

No monitoring well maintenance was performed during the May 2018 Site visit.

4.3.2 Routine Maintenance

No routine maintenance was performed at the time this report was prepared.

4.3.3 Intermittent Maintenance

No intermittent maintenance was performed during the May 2018 Site visit.

5.0 IDENTIFICATION, AND ASSESSMENT OF ENGINEERING AND INSTITUTIONAL CONTROLS

5.1 Engineering Control Systems

Site remediation included planting 15 poplar and 15 willow trees near the southern border of the Site as a phytoremediation approach to address drainage in this area and to reduce migration of groundwater contamination to the adjacent Ruby Gordon property. The trees were inspected in May 2018 in accordance with the Monitoring and Sampling Plan. The trees appeared to be healthy at the time of the inspection.

5.2 Institutional Controls

A series of ICs is required by the ROD to: implement, maintain and monitor Engineering Controls; prevent future exposure to remaining contamination; and, limit the use and development of the Site to commercial or industrial uses only. Adherence to these ICs is required by the Environmental Easement and implemented under the SMP. ICs may not be discontinued without an amendment to, or extinguishment of, the Environmental Easement. The ICs are implemented to the extent of the Site boundary, which is shown on Figure 2. The site-specific ICs are:

- The property may be used for commercial or industrial use.
- All ECs must be operated and maintained as specified in the SMP.
- All ECs must be inspected at a frequency and in a manner defined in the SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Monroe Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the NYSDEC.
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP.
- Data and information pertinent to Site management must be reported at the frequency and in a manner as defined in the SMP.

- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP.
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP.
- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC (Site) boundary shown in Figure 2, and any potential impacts that are identified must be monitored or mitigated.
- Periodic monitoring of the indoor air and sumps at the Ruby Gordon building to confirm that the sump covers are in place.

6.0 SUMMARY AND RECOMMENDATIONS

6.1 Groundwater Hydraulic Monitoring

The May 2018 monitoring shows that groundwater flow is from the east with some flow components to the south, west, north, and northwest.

6.2 Groundwater Quality Monitoring

Three monitoring wells have concentrations of COCs that exceed 1,000 µg/L - 1,1,1-TCA at SW-32 and SW-37, and PCE at URS-16. The remaining COCs with concentrations greater than 1,000 µg/L (i.e., 1,1-DCE, cis-1,2-DCE, CA, and VC) are PCE, TCE, or 1,1,1-TCA degradation products. The May 2018 data show that COC concentrations, in general, are decreasing compared to historical data. Several locations exhibited increased concentrations of COCs, but most of those increases were degradation products, which would be expected as a result of natural attenuation. Insufficient post-remediation data is available from locations OW-04S, URS-01, and URS-03, where 1,1,1-TCA and/or TCE showed increased concentrations, to determine if those increases are a trend or the result of seasonal variation.

For the emerging contaminants, concentrations of PFASs detected were above their criteria in six of the nine samples. The concentrations of 1,4-dioxane in samples from SW-32, SW-33 and URS-02 were notable, in the low parts per million range. The presence of 1,4-dioxane is possibly associated with solvents used at the Site. Continued monitoring for these analytes is recommended in future monitoring events.

6.3 Monitoring Well Maintenance

The following monitoring well maintenance activities are recommended:

- replace the curb box for URS-04;
- remove the obstruction in URS-04;
- install an outer casing with locking cap for OW-07S;
- install a new outer casing with locking cap for URS-09;
- replace bolts to the cover of URS-06 with standard stainless steel 9/16” bolts; and

- re-label B1/PZ-03, OW-07S, OW-04S, URS-05, URS-06 and URS-13.

6.4 Site Maintenance

No needed maintenance items were noted during the May 2018 Site inspection.

7.0 REFERENCES

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URS. 2014a. *Focused Feasibility Study Report, Stuart Olver Holtz Site, Site No. 828079, Final*. January.

URS 2014b. *Stuart Olver Holtz Site (#8-28-079) Asphalt Drainage Swale Evaluation*. February 10

URS. 2018. *Stuart Olver Holtz Site Management Plan*. June.

TABLES

TABLE 1
GROUNDWATER ELEVATION MEASUREMENTS
STUART OLVER HOLTZ SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
B1/PZ-03 PZ	1123913.793	751258.2088			527.97		5/2/2018 0850	8.32	519.65	0.00		
B4/PZ-01 PZ	1123613.144	751118.1692			530.75		5/2/2018 1100	7.87	522.88	0.00		
MW-05 MNW	1123798.575	751154.1309	527.4		530.31		5/2/2018 1120	6.73	523.58	0.00		
OW-03S MNW	1123872.990	751118.5955	523.3		527.25		5/2/2018 1132	5.31	521.94	0.00		
OW-04S MNW	1123652.253	751055.8861	530.0		531.81		5/2/2018 1110	7.94	523.87	0.00		
OW-05S MNW	1123966.227	751364.401	526.9		528.79		5/2/2018 0845	8.32	520.47	0.00		
OW-06S MNW	1123597.261	751240.4279	529.0		531.00		5/2/2018 1050	5.47	525.53	0.00		
OW-07S MNW	1123711.506	751320.401	528.1		527.51		5/2/2018 0935	3.27	524.24	0.00		
SW-32 MNW	1123716.389	751357.815	528.11	530.98	530.49		5/2/2018 0940	3.84	526.65	0.00		
SW-33 MNW	1123721.278	751384.386	531.33	534.14	533.62		5/2/2018 0944	6.75	526.87	0.00		
SW-37 MNW	1123694.431	751402.008	531.33	534.28	533.77		5/2/2018 0950	5.98	527.79	0.00		
URS-01 MNW	1123711.506	751214.7767	527.47	530.12	529.93		5/2/2018 1056	4.69	525.24	0.00		
URS-02 MNW	1123739.943	751129.4642	528.0	530.71	530.48		5/2/2018 1115	5.95	524.53	0.00		

NM - No Measurement

Type:
MNW Monitoring Well
PZ Piezometer

TABLE 1
GROUNDWATER ELEVATION MEASUREMENTS
STUART OLVER HOLTZ SITE

Location ID / Type	Northing	Easting	Ground Elevation (ft)	Casing Elevation (ft)	Meas.point (Riser)Elev.(ft)	Geol. Zone	Date / Time	Depth to Water (ft)	Water Elev. (ft)	Product Thick. (ft)	Corrected Water Elev. (ft)	Remark
URS-03 MNW	1123859.110	751308.214	527.78	530.12	530.20		5/2/2018 0815	5.95	524.25	0.00		
URS-04 MNW	1124029.735	751302.797	526.50	526.50	526.21		5/2/2018 0930	8.26	517.95	0.00		
URS-05 MNW	1123859.110	750869.464	524.63	524.63	524.26		5/2/2018 1155	3.62	520.64	0.00		
URS-06 MNW	1123696.610	750977.7976	525.4	525.40	525.09		5/2/2018 1300	0.50	524.59	0.00		
URS-08 MNW	1123779.214	751531.6517	531.53	534.10	533.99		5/2/2018 1015	4.35	529.64	0.00		
URS-09 MNW	1123888.902	751565.505	531.80	534.38	534.11		5/2/2018 1017	5.39	528.72	0.00		
URS-11 MNW	1123676.297	751377.276	531.90	534.68	534.51		5/2/2018 0952	6.90	527.61	0.00		
URS-12 MNW	1123708.797	751430.089	531.92	534.61	534.50		5/2/2018 0954	5.93	528.57	0.00		
URS-13 MNW	1123516.506	751022.4851	525.5	525.49	525.18		5/2/2018 1315	2.42	522.76	0.00		
URS-14 MNW	1123879.422	751226.964	526.82	529.66	529.74		5/2/2018 0830	6.22	523.52	0.00		
URS-15 MNW	1123616.881	751385.891	527.95	530.96	530.37		5/2/2018 1046	3.05	527.32	0.00		
URS-16 MNW	1123815.882	751104.895	528.66	531.78	531.25		5/2/2018 1130	7.98	523.27	0.00		

NM - No Measurement

Type:
MNW Monitoring Well
PZ Piezometer

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN MAY 2018 GROUNDWATER SAMPLES
STUART OLVER HOLTZ SITE

Location ID			B1/PZ-03	B4/PZ-01	MW-05	OW-03S	OW-04S
Sample ID			B1/PZ-3	B4/PZ-01	MW-05	OW-3S	OW-04S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5		27	22		930
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1		0.24 J			
1,1-Dichloroethane	UG/L	5		15	74	350	910
1,1-Dichloroethene	UG/L	5		5.8	8.5 J	41	240
1,2-Dichloroethane	UG/L	0.6		0.22 J			
1,2-Dichloroethene (cis)	UG/L	5		2.7	210	360	130
1,2-Dichloroethene (trans)	UG/L	5					
Chloroethane	UG/L	5		0.66 J			
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10			3.5 J		
Tetrachloroethene	UG/L	5			640	5.9 J	
Trichloroethene	UG/L	5		2.4	200	140	25
Vinyl chloride	UG/L	2					
Total Volatile Organic Compounds	UG/L	-	ND	54.02	1,158	896.9	2,235

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, Revised April 2000, Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

- - No Standard or guidance value.

Empty cell - Not detected. D - Result reported from a secondary dilution analysis. J - The reported concentration is an estimated value.

Only Detected Results Reported.

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[MATRIX] = 'WG' AND [LOGDATE] >= #5/2/2018# AND NOT ([PRCCODE] = 'PFC' OR [PARNAME] = '1,4-Dioxane

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN MAY 2018 GROUNDWATER SAMPLES
STUART OLVER HOLTZ SITE

Location ID			OW-05S	OW-06S	OW-06S	OW-07S	OW-07S
Sample ID			OW-5S	FD2-050218	OW-6S	FD1-050218	OW-7S
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**	**Criteria***		Field Duplicate (1-1)		Field Duplicate (1-1)	
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	0.89 J				
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	1.5				
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	14	26	28	1,400	1,300
1,1-Dichloroethene	UG/L	5	4.8				
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	11	520	550	10,000	10,000
1,2-Dichloroethene (trans)	UG/L	5			9.4 J		
Chloroethane	UG/L	5					
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10					
Tetrachloroethene	UG/L	5		21	20		
Trichloroethene	UG/L	5	33	20	19	230 J	210
Vinyl chloride	UG/L	2		17	19	1,900	1,800
Total Volatile Organic Compounds	UG/L	-	65.19	604	645.4	13,530	13,310

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, Revised April 2000, Class GA.

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Concentration Exceeds Criteria

- - No Standard or guidance value.

Empty cell - Not detected. D - Result reported from a secondary dilution analysis. J - The reported concentration is an estimated value.

Only Detected Results Reported.

TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN MAY 2018 GROUNDWATER SAMPLES
STUART OLVER HOLTZ SITE

Location ID			SW-32	SW-33	SW-37	URS-01	URS-02
Sample ID			SW-32	SW-33	SW-37	URS-01	URS-02
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	630,000		1,200	420	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5				82	
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	90,000	20,000 J	7,700	2,700 D	4.6
1,1-Dichloroethene	UG/L	5				160	
1,2-Dichloroethane	UG/L	0.6				5.7 J	
1,2-Dichloroethene (cis)	UG/L	5			6,200	3,700 D	
1,2-Dichloroethene (trans)	UG/L	5					
Chloroethane	UG/L	5		16,000 J		160	2.6 J
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10					7.4
Tetrachloroethene	UG/L	5					
Trichloroethene	UG/L	5				780	
Vinyl chloride	UG/L	2			2,700	1,500	
Total Volatile Organic Compounds	UG/L	-	720,000	36,000	17,800	9,507.7	14.6

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, Revised April 2000, Class GA.

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TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN MAY 2018 GROUNDWATER SAMPLES
STUART OLVER HOLTZ SITE

Location ID			URS-03	URS-05	URS-06	URS-08	URS-11
Sample ID			URS-03	URS-05	URS-06	URS-08	URS-11
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	640			0.96 J	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	140				
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5	210			1.0	6,100
1,1-Dichloroethene	UG/L	5	16				
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5	35				
1,2-Dichloroethene (trans)	UG/L	5					
Chloroethane	UG/L	5					22,000
Chloromethane	UG/L	5					400 J
Methyl tert-butyl ether	UG/L	10					
Tetrachloroethene	UG/L	5	5.1 J				
Trichloroethene	UG/L	5	37				
Vinyl chloride	UG/L	2	14				
Total Volatile Organic Compounds	UG/L	-	1,097.1	ND	ND	1.96	28,500

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, Revised April 2000, Class GA.

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Empty cell - Not detected. D - Result reported from a secondary dilution analysis. J - The reported concentration is an estimated value.

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TABLE 2
SUMMARY OF DETECTED COMPOUNDS IN MAY 2018 GROUNDWATER SAMPLES
STUART OLVER HOLTZ SITE

Location ID			URS-12	URS-13	URS-14	URS-15	URS-16
Sample ID			URS-12	URS-13	URS-14	URS-15	URS-16
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5					
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5					
1,1,2-Trichloroethane	UG/L	1					
1,1-Dichloroethane	UG/L	5				640	260
1,1-Dichloroethene	UG/L	5				31	
1,2-Dichloroethane	UG/L	0.6					
1,2-Dichloroethene (cis)	UG/L	5				2,300 D	1,800
1,2-Dichloroethene (trans)	UG/L	5				120	
Chloroethane	UG/L	5				120	
Chloromethane	UG/L	5					
Methyl tert-butyl ether	UG/L	10		0.37 J			
Tetrachloroethene	UG/L	5					2,600
Trichloroethene	UG/L	5				13 J	630
Vinyl chloride	UG/L	2				2,000 D	95
Total Volatile Organic Compounds	UG/L	-	ND	0.37	ND	5,224	5,385

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, Revised April 2000, Class GA.

Flags assigned during chemistry validation are shown.

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- - No Standard or guidance value.

Empty cell - Not detected. D - Result reported from a secondary dilution analysis. J - The reported concentration is an estimated value.

Only Detected Results Reported.

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[MATRIX] = 'WG' AND [LOGDATE] >= #5/2/2018# AND NOT ([PRCCODE] = 'PFC' OR [PARNAME] = '1,4-Dioxane

TABLE 3
SUMMARY OF DETECTED EMERGING CONTAMINANTS IN GROUNDWATER SAMPLES
STUART OLVER HOLTZ SITE

Location ID			SW-32	SW-33	URS-02	URS-03	URS-05
Sample ID			SW-32	SW-33	URS-02	URS-03	URS-05
Matrix			Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**	**Criteria***					
Volatile Organic Compounds							
1,4-Dioxane	UG/L	-	8,000	3,400 J	1,800	62	
Per- and Polyfluoroalkyl Substances							
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	8.49 NJ		2.29	0.96 J	1.36 J
Perfluorobutanoic acid (PFBA)	NG/L	-	98.5	64.8	14.6	8.85	63.7
Perfluorodecanoic acid (PFDA)	NG/L	-	2.26	1.21 J		3.39	
Perfluorododecanoic acid (PFDoA)	NG/L	-				1.65 J	
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	-	0.77 J	0.81 J		0.64 J	
Perfluoroheptanoic acid (PFHpA)	NG/L	-	12.0	18.7	2.50	4.88	1.65 J
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	3.56	4.95		2.43	
Perfluorohexanoic acid (PFHxA)	NG/L	-	37.7	73.8	6.97	9.45	2.52
Perfluorononanoic acid (PFNA)	NG/L	-	1.73 J	2.80	0.44 J	2.19 J	0.63 J
Perfluorooctane sulfonamide (FOSA)	NG/L	-				0.43 J	
Perfluorooctanesulfonic acid (PFOS)	NG/L	70	36.0	58.8	7.49	56.7	12.6
Perfluorooctanoic acid (PFOA)	NG/L	70	31.7	58.5	4.80	15.9	2.19
Perfluoropentanoic acid (PFPA)	NG/L	-	37.1	60.0	8.95	9.21	2.24
Perfluorotetradecanoic acid (PFTeA)	NG/L	-					
Perfluoroundecanoic acid (PFUnA)	NG/L	-					
Total PFOA and PFOS	NG/L	70	67.7	117.3	12.29	72.6	14.79

*Criteria- USEPA Drinking Water Health Advisory (USEPA, May 2016)

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 3
SUMMARY OF DETECTED EMERGING CONTAMINANTS IN GROUNDWATER SAMPLES
STUART OLVER HOLTZ SITE

Location ID			URS-08	URS-09	URS-13	URS-15
Sample ID			URS-08	URS-09	URS-13	URS-15
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**	**Criteria***				
Volatile Organic Compounds						
1,4-Dioxane	UG/L	-		NA	2.2	89
Per- and Polyfluoroalkyl Substances						
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	1.20 J	1.37 J	4.71	
Perfluorobutanoic acid (PFBA)	NG/L	-	18.9	7.75	64.6	34.2
Perfluorodecanoic acid (PFDA)	NG/L	-	5.64	1.44 J	11.4	0.70 J
Perfluorododecanoic acid (PFDoA)	NG/L	-			1.22 J	
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	-	1.0 J	1.13 J	2.02	0.95 J
Perfluoroheptanoic acid (PFHpA)	NG/L	-	11.5	2.30	71.0	18.5
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	2.79	3.01	9.27	4.58
Perfluorohexanoic acid (PFHxA)	NG/L	-	25.6	4.84	119	55.3
Perfluorononanoic acid (PFNA)	NG/L	-	2.93	0.83 J	36.4	2.07
Perfluorooctane sulfonamide (FOSA)	NG/L	-				
Perfluorooctanesulfonic acid (PFOS)	NG/L	70	65.6	187	51.4	46.0
Perfluorooctanoic acid (PFOA)	NG/L	70	25.9	5.12	112	33.8
Perfluoropentanoic acid (PFPA)	NG/L	-	25.6	2.08 J	133	49.0
Perfluorotetradecanoic acid (PFTeA)	NG/L	-				0.62 J
Perfluoroundecanoic acid (PFUnA)	NG/L	-			1.58 J	
Total PFOA and PFOS	NG/L	70	91.5	192.12	163.4	79.8

*Criteria- USEPA Drinking Water Health Advisory (USEPA, May 2016)

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN GROUNDWATER SAMPLES
STUART OLVER HOLTZ SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
1,1,1-Trichloroethane	UG/L	5	25	9	0.890	6.30E+05	7.04E+04	7	SW-32
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	25	3	1.50	140.0	74.50	2	URS-03
1,1,2-Trichloroethane	UG/L	1	25	1	0.240	0.240	0.240	0	B4/PZ-01
1,1-Dichloroethane	UG/L	5	25	19	1.00	9.00E+04	6,933	17	SW-32
1,1-Dichloroethene	UG/L	5	25	8	4.80	240.0	63.39	7	OW-04S
1,2-Dichloroethane	UG/L	0.6	25	2	0.220	5.70	2.96	1	URS-01
1,2-Dichloroethene (cis)	UG/L	5	25	14	2.70	10,000	2,558	13	OW-07S
1,2-Dichloroethene (trans)	UG/L	5	25	2	9.40	120.0	64.70	2	URS-15
Chloroethane	UG/L	5	25	6	0.660	2.20E+04	6,381	4	URS-11
Chloromethane	UG/L	5	25	1	400.0	400.0	400.0	1	URS-11
Methyl tert-butyl ether	UG/L	10	25	3	0.370	7.40	3.76	0	URS-02
Tetrachloroethene	UG/L	5	25	6	5.10	2,600	548.7	6	URS-16
Trichloroethene	UG/L	5	25	13	2.40	780.0	180.0	12	URS-01
Vinyl chloride	UG/L	2	25	9	14.00	2,700	1,116	9	SW-37

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, Revised April 2000, Class GA.

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 4
STATISTICAL SUMMARY OF COMPOUNDS DETECTED IN GROUNDWATER SAMPLES
STUART OLVER HOLTZ SITE

Parameter	Units	Criteria*	No. of Samples	No. of Detections	Range of Detections			No. Exceed	Location of Max Value
					Min	Max	Avg		
Volatile Organic Compounds									
1,4-Dioxane	UG/L	-	8	6	2.20	8,000	2,226	0	SW-32
Per- and Polyfluoroalkyl Substances									
Perfluorobutanesulfonic acid (PFBS)	NG/L	-	9	7	0.960	8.49	2.91	0	SW-32
Perfluorobutanoic acid (PFBA)	NG/L	-	9	9	7.75	98.50	41.77	0	SW-32
Perfluorodecanoic acid (PFDA)	NG/L	-	9	7	0.700	11.40	3.72	0	URS-13
Perfluorododecanoic acid (PFDoA)	NG/L	-	9	2	1.22	1.65	1.44	0	URS-03
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	-	9	7	0.640	2.02	1.05	0	URS-13
Perfluoroheptanoic acid (PFHpA)	NG/L	-	9	9	1.65	71.00	15.89	0	URS-13
Perfluorohexanesulfonic acid (PFHxS)	NG/L	-	9	7	2.43	9.27	4.37	0	URS-13
Perfluorohexanoic acid (PFHxA)	NG/L	-	9	9	2.52	119.0	37.24	0	URS-13
Perfluorononanoic acid (PFNA)	NG/L	-	9	9	0.440	36.40	5.56	0	URS-13
Perfluorooctane sulfonamide (FOSA)	NG/L	-	9	1	0.430	0.430	0.430	0	URS-03
Perfluorooctanesulfonic acid (PFOS)	NG/L	70	9	9	7.49	187.0	57.95	1	URS-09
Perfluorooctanoic acid (PFOA)	NG/L	70	9	9	2.19	112.0	32.21	1	URS-13
Perfluoropentanoic acid (PFPA)	NG/L	-	9	9	2.08	133.0	36.35	0	URS-13
Perfluorotetradecanoic acid (PFTeA)	NG/L	-	9	1	0.620	0.620	0.620	0	URS-15
Perfluoroundecanoic acid (PFUnA)	NG/L	-	9	1	1.58	1.58	1.58	0	URS-13
Total PFOA and PFOS	NG/L	70	9	9	12.30	192.0	90.08	6	URS-09

*Criteria- USEPA Drinking Water Health Advisory (USEPA, May 2016)

Concentration Exceeds Criteria

Only Detected Results Reported.

TABLE 5
HISTORICAL RESULTS OF COMPOUNDS DETECTED IN GROUNDWATER SAMPLES
STUART OLVER HOLTZ SITE

Location ID		1/PZ-03	4/PZ-01		MW-05	OW-03S		OW-04S		OW-05S		OW-06S		OW-07S	
Date Sampled		05/02/18	04/30/13	05/02/18	05/02/18	04/29/13	05/02/18	01/20/14	05/02/18	04/29/13	05/02/18	01/20/14	05/02/18	02/27/15	05/02/18
Parameter	**Units**														
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	UG/L		380	27	22			140	***930***	25	0.89	25		70,000	
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L									19	1.5				
1,1,2-Trichloroethane	UG/L		2.1	0.24											
1,1-Dichloroethane	UG/L		170	15	74	690	350	190	***910***	96	14	89	28	7,000	1,400
1,1-Dichloroethene	UG/L		81	5.8	8.5	100	41	61	***240***	39	4.8			8,900	
1,2-Dichloroethane	UG/L		2.2	0.22				0.50							
1,2-Dichloroethene (cis)	UG/L		32	2.7	210	980	360	23	***130***	91	11	180	***550***	35,000	10,000
1,2-Dichloroethene (trans)	UG/L		3.7									18	9.4		
Acetone	UG/L											37			
Carbon disulfide	UG/L														
Chloroethane	UG/L		40	0.66								22			
Chloroform	UG/L														
Chloromethane	UG/L														
Isopropylbenzene (Cumene)	UG/L		1.0												
Methyl ethyl ketone (2-Butanone)	UG/L											70			
Methyl tert-butyl ether	UG/L				3.5										
Methylene chloride	UG/L		2.0					7.6		4.5		20		1,200	
Tetrachloroethene	UG/L		1.8		640	220	5.9					39	21		
Toluene	UG/L														
Trichloroethene	UG/L		19	2.4	200	450	140	7.5	***25***	230	33	27	20	4,800	230
Vinyl chloride	UG/L		6.5			49						770	19	5,900	1,900
Total VOCs	UG/L	ND	741	54	1,158	2,489	897	430	***2,235***	505	65	1,297	647	132,800	13,530

< or ND = Not detected. Results in bold and italics are higher than previous result.

TABLE 5
HISTORICAL RESULTS OF COMPOUNDS DETECTED IN GROUNDWATER SAMPLES
STUART OLVER HOLTZ SITE

Location ID		SW-32		SW-33		SW-37		URS-01		URS-02	URS-03		URS-05	URS-06	URS-08
Date Sampled		02/27/15	05/02/18	02/27/15	05/02/18	02/27/15	05/02/18	04/29/13	05/02/18	05/02/18	04/29/13	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	Units														
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	UG/L	1,100,000	630,000	970,000		8,500	1,200	< 16	***420***		39	***640***			0.96
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L			2,400				< 4.2	***82***		120	***140***			
1,1,2-Trichloroethane	UG/L														
1,1-Dichloroethane	UG/L	100,000	90,000	21,000	20,000	18,000	7,700	910	***2,700***	4.6	88	***210***			1.0
1,1-Dichloroethene	UG/L	80,000		68,000		1,100		< 20	***160***		< 2.9	***16***			
1,2-Dichloroethane	UG/L			100				<4.2	***5.7***						
1,2-Dichloroethene (cis)	UG/L			5,800		52,000	6,200	29	***3,700***		10	***35***			
1,2-Dichloroethene (trans)	UG/L					940									
Acetone	UG/L										78				
Carbon disulfide	UG/L														
Chloroethane	UG/L			1,500	***16,000***			1,200	160	2.6	130				
Chloroform	UG/L			77											
Chloromethane	UG/L														
Isopropylbenzene (Cumene)	UG/L														
Methyl ethyl ketone (2-Butanone)	UG/L			940				310			2,600				
Methyl tert-butyl ether	UG/L									7.4					
Methylene chloride	UG/L	130,000		5,600				17			11				
Tetrachloroethene	UG/L			310							< 3.6	***5.1***			
Toluene	UG/L			740											
Trichloroethene	UG/L			780		3,800		14	***780***		14	***37***			
Vinyl chloride	UG/L			7,600		1,900	***2,700***	24	***1,500***		< 9	***14***			
Total VOCs	UG/L	1,410,000	720,000	1,084,847	36,000	86,240	17,800	2,504	***9,508***	15	3,090	1,097	ND	ND	2.0

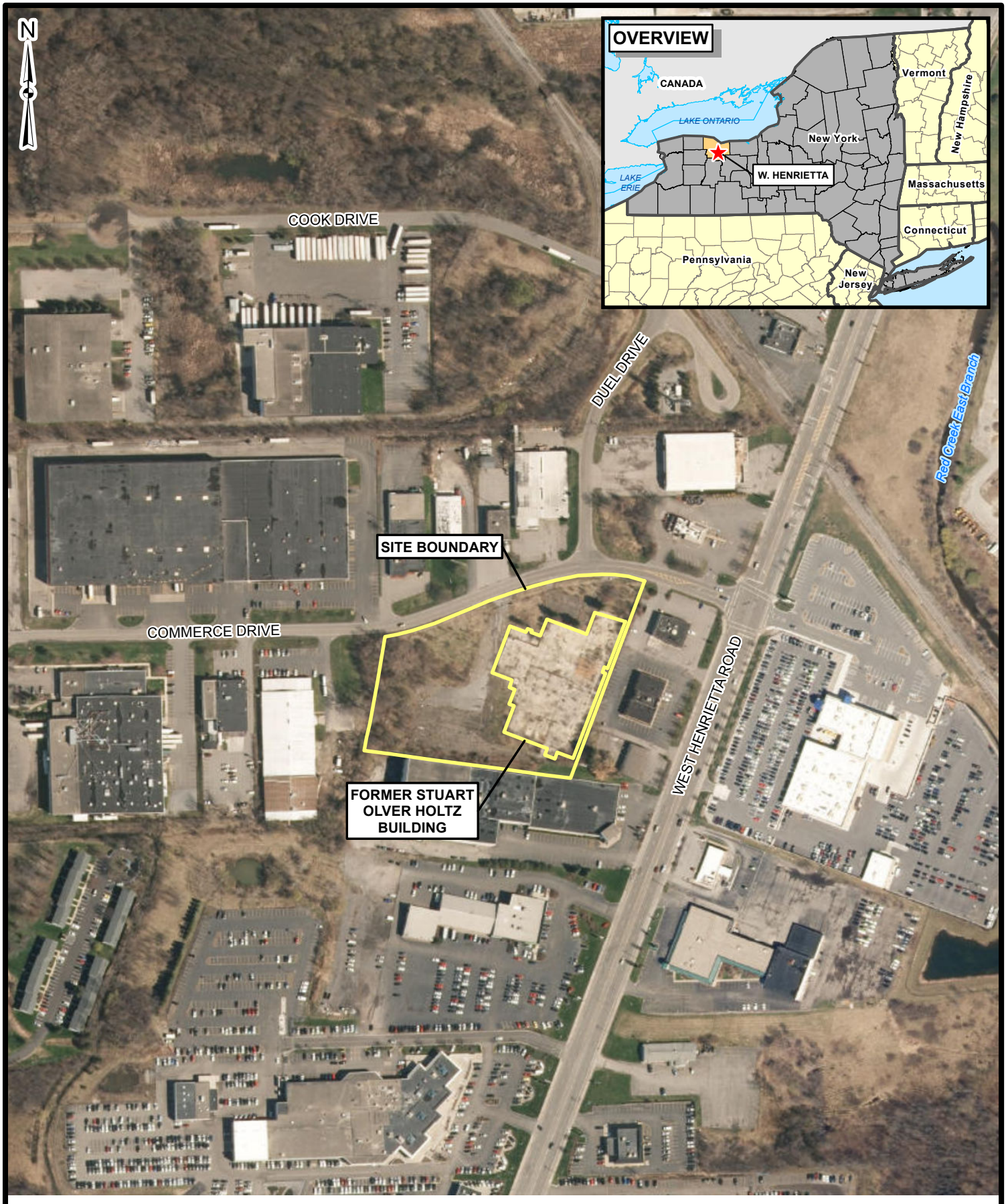
< or ND = Not detected. Results in bold and italics are higher than previous result.

TABLE 5
HISTORICAL RESULTS OF COMPOUNDS DETECTED IN GROUNDWATER SAMPLES
STUART OLVER HOLTZ SITE

Location ID		URS-11		URS-12		URS-13	URS-14	URS-15		URS-16	
Date Sampled		02/27/15	05/02/18	01/20/14	05/02/18	05/02/18	05/02/18	01/20/14	05/02/18	01/20/14	05/02/18
Parameter	Units										
Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	UG/L	29,000						78			
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L							22			
1,1,2-Trichloroethane	UG/L										
1,1-Dichloroethane	UG/L	20,000	6,100	16				1,700	640	130	***260***
1,1-Dichloroethene	UG/L	3,200						13	***31***	27	
1,2-Dichloroethane	UG/L										
1,2-Dichloroethene (cis)	UG/L	4,100		25				330	***2,300***	2,100	1,800
1,2-Dichloroethene (trans)	UG/L			61				86	***120***		
Acetone	UG/L			730				64			
Carbon disulfide	UG/L			15							
Chloroethane	UG/L	1,400	***22,000***					150	120		
Chloroform	UG/L										
Chloromethane	UG/L	< 350	***400***								
Isopropylbenzene (Cumene)	UG/L										
Methyl ethyl ketone (2-Butanone)	UG/L	7,200		2,900				240			
Methyl tert-butyl ether	UG/L					0.37				13	
Methylene chloride	UG/L	6,800		25				46		38	
Tetrachloroethene	UG/L									6,600	2,600
Toluene	UG/L										
Trichloroethene	UG/L	960		11				< 9.2	***13***	1,400	630
Vinyl chloride	UG/L			22				820	***2,000***	270	95
Total VOCs	UG/L	72,660	28,500	3,805	ND	0.37	ND	3,549	***5,224***	10,578	5,385

< or ND = Not detected. Results in bold and italics are higher than previous result.

FIGURES



Source: ESRI World Imagery

300 0 300 Feet

URS

STUART OLVER HOLTZ
SITE LOCATION

FIGURE 1

J:\Projects\11174465.00000\DB\GIS\SITE LOCATION.mxd 10/11/2018

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URS

STUART OLVER HOLTZ SITE
SITE PLAN

FIGURE 2

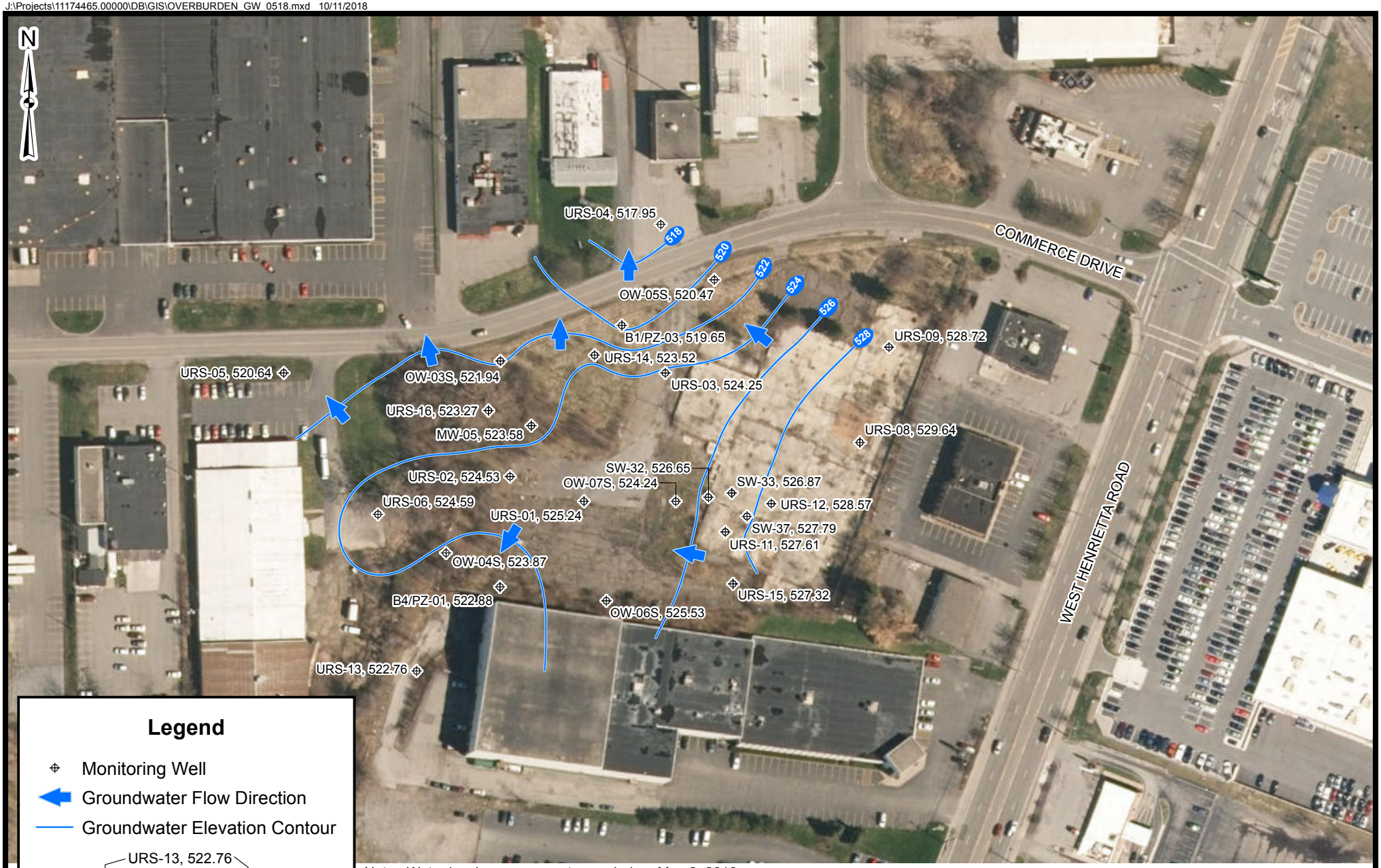
J:\Projects\11174465.00000\DB\GIS\MONITORING WELLS.mxd 10/11/2018

URS

STUART OLVER HOLTZ SITE
MONITORING WELLS

FIGURE 3

J:\Projects\11174465.00000\DB\GIS\OVERBURDEN_GW_0518.mxd 10/11/2018



URS

STUART OLVER HOLTZ SITE
OVERBURDEN GROUNDWATER CONTOUR MAP
MAY 2, 2018

FIGURE 4

N

URS-03	CRIT	05/18
VOCs:		
1,1,1-Trichloroethane	5	640
1,1,2-Trichloro-1,2,2-trifluoroethane	5	140
1,1-Dichloroethane	5	210
1,1-Dichloroethene	5	16
1,2-Dichloroethene (cis)	5	35
Tetrachloroethene	5	5.1
Trichloroethene	5	37
Vinyl chloride	2	14

OW-03S	CRIT	05/18
VOCs:		
1,1-Dichloroethane	5	350
1,1-Dichloroethene	5	41
1,2-Dichloroethene (cis)	5	360
Tetrachloroethene	5	5.9
Trichloroethene	5	140

OW-05S	CRIT	05/18
VOCs:		
1,1-Dichloroethane	5	14
1,2-Dichloroethene (cis)	5	11
Trichloroethene	5	33

OW-07S	CRIT	05/18
VOCs:		
1,1-Dichloroethane	5	1400
1,2-Dichloroethene (cis)	5	10000
Trichloroethene	5	230
Vinyl chloride	2	1900

MW-05	CRIT	05/18
VOCs:		
1,1,1-Trichloroethane	5	22
1,1-Dichloroethane	5	74
1,1-Dichloroethene	5	8.5
1,2-Dichloroethene (cis)	5	210
Tetrachloroethene	5	640
Trichloroethene	5	200

SW-32	CRIT	05/18
VOCs:		
1,1,1-Trichloroethane	5	630000
1,1-Dichloroethane	5	90000

URS-16	CRIT	05/18
VOCs:		
1,1-Dichloroethane	5	260
1,2-Dichloroethene (cis)	5	1800
Tetrachloroethene	5	2600
Trichloroethene	5	630
Vinyl chloride	2	95

SW-33	CRIT	05/18
VOCs:		
1,1-Dichloroethane	5	20000
Chloroethane	5	16000

URS-01	CRIT	05/18
VOCs:		
1,1,1-Trichloroethane	5	420
1,1,2-Trichloro-1,2,2-trifluoroethane	5	82
1,1-Dichloroethane	5	2700
1,1-Dichloroethene	5	160
1,2-Dichloroethane	0.6	5.7
1,2-Dichloroethene (cis)	5	3700
Chloroethane	5	160
Trichloroethene	5	780
Vinyl chloride	2	1500

SW-37	CRIT	05/18
VOCs:		
1,1,1-Trichloroethane	5	1200
1,1-Dichloroethane	5	7700
1,2-Dichloroethene (cis)	5	6200
Vinyl chloride	2	2700

OW-04S	CRIT	05/18
VOCs:		
1,1,1-Trichloroethane	5	930
1,1-Dichloroethane	5	910
1,1-Dichloroethene	5	240
1,2-Dichloroethene (cis)	5	130
Trichloroethene	5	25

B4/PZ-01	CRIT	05/18
VOCs:		
1,1,1-Trichloroethane	5	27
1,1-Dichloroethane	5	15
1,1-Dichloroethene	5	5.8

URS-11	CRIT	05/18
VOCs:		
1,1-Dichloroethane	5	6100
Chloroethane	5	22000
Chloromethane	5	400

OW-06S	CRIT	05/18
VOCs:		
1,1-Dichloroethane	5	28
1,2-Dichloroethene (cis)	5	550
1,2-Dichloroethene (trans)	5	9.4
Tetrachloroethene	5	21
Trichloroethene	5	20
Vinyl chloride	2	19

URS-15	CRIT	05/18
VOCs:		
1,1-Dichloroethane	5	640
1,1-Dichloroethene	5	31
1,2-Dichloroethene (cis)	5	2300
1,2-Dichloroethene (trans)	5	120
Chloroethane	5	120
Trichloroethene	5	13
Vinyl chloride	2	2000

COMMERCE DRIVE

WEST HENRIETTA ROAD

B1/PZ-03
(No Exceedances)

URS-14
(No Exceedances)

URS-05
(No Exceedances)

URS-08
(No Exceedances)

URS-02
(No Exceedances)

URS-12
(No Exceedances)

URS-06
(No Exceedances)

URS-13
(No Exceedances)

Legend

⌖ Monitoring Well

Notes:
1. Concentrations in µg/L
2. CRIT - Criteria: NYSDEC TOGS (1.1.1), Class GA, 2000

Source: ESRI World Imagery

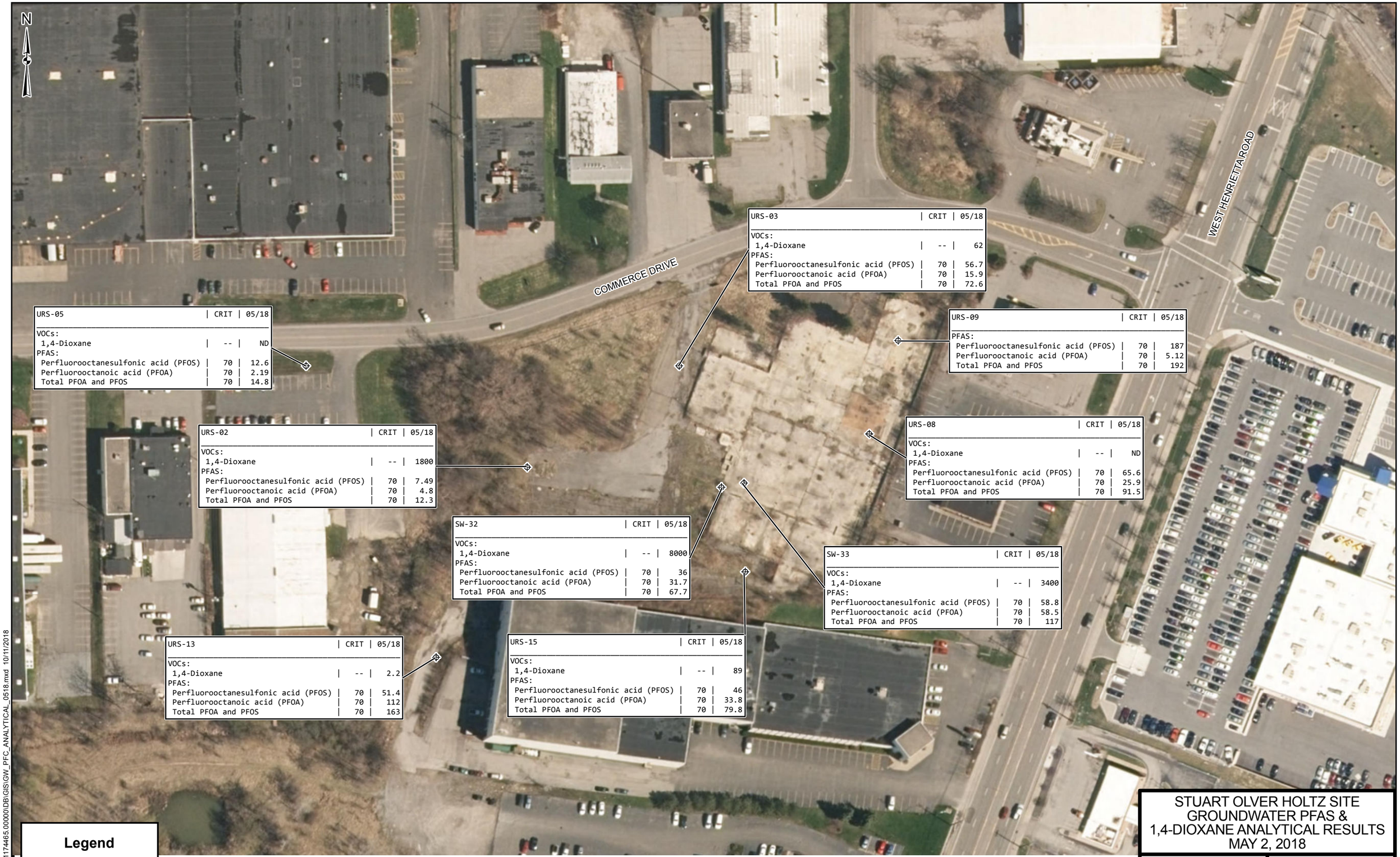
100 0 100 Feet

STUART OLVER HOLTZ SITE
GROUNDWATER VOC
ANALYTICAL RESULTS
MAY 2, 2018

URS

FIGURE 5

J:\Projects\11174465.00000\DB\GIS\GW_VOC_ANALYTICAL_0518.mxd 10/11/2018



URS-05	CRIT	05/18
VOCs:		
1,4-Dioxane	--	ND
PFAS:		
Perfluorooctanesulfonic acid (PFOS)	70	12.6
Perfluorooctanoic acid (PFOA)	70	2.19
Total PFOA and PFOS	70	14.8

URS-03	CRIT	05/18
VOCs:		
1,4-Dioxane	--	62
PFAS:		
Perfluorooctanesulfonic acid (PFOS)	70	56.7
Perfluorooctanoic acid (PFOA)	70	15.9
Total PFOA and PFOS	70	72.6

URS-09	CRIT	05/18
PFAS:		
Perfluorooctanesulfonic acid (PFOS)	70	187
Perfluorooctanoic acid (PFOA)	70	5.12
Total PFOA and PFOS	70	192

URS-02	CRIT	05/18
VOCs:		
1,4-Dioxane	--	1800
PFAS:		
Perfluorooctanesulfonic acid (PFOS)	70	7.49
Perfluorooctanoic acid (PFOA)	70	4.8
Total PFOA and PFOS	70	12.3

URS-08	CRIT	05/18
VOCs:		
1,4-Dioxane	--	ND
PFAS:		
Perfluorooctanesulfonic acid (PFOS)	70	65.6
Perfluorooctanoic acid (PFOA)	70	25.9
Total PFOA and PFOS	70	91.5

SW-32	CRIT	05/18
VOCs:		
1,4-Dioxane	--	8000
PFAS:		
Perfluorooctanesulfonic acid (PFOS)	70	36
Perfluorooctanoic acid (PFOA)	70	31.7
Total PFOA and PFOS	70	67.7

SW-33	CRIT	05/18
VOCs:		
1,4-Dioxane	--	3400
PFAS:		
Perfluorooctanesulfonic acid (PFOS)	70	58.8
Perfluorooctanoic acid (PFOA)	70	58.5
Total PFOA and PFOS	70	117

URS-13	CRIT	05/18
VOCs:		
1,4-Dioxane	--	2.2
PFAS:		
Perfluorooctanesulfonic acid (PFOS)	70	51.4
Perfluorooctanoic acid (PFOA)	70	112
Total PFOA and PFOS	70	163

URS-15	CRIT	05/18
VOCs:		
1,4-Dioxane	--	89
PFAS:		
Perfluorooctanesulfonic acid (PFOS)	70	46
Perfluorooctanoic acid (PFOA)	70	33.8
Total PFOA and PFOS	70	79.8

Legend

⌖ Monitoring Well

Notes:
1. 1,4 Dioxane in µg/L; PFAS in ng/L; ND - Not Detected
2. CRIT - Criteria: USEPA Drinking Water Health Advisory, 2016

Source: ESRI World Imagery

100 0 100 Feet

STUART OLVER HOLTZ SITE GROUNDWATER PFAS & 1,4-DIOXANE ANALYTICAL RESULTS MAY 2, 2018

URS

FIGURE 6

J:\Projects\11174465.00000\DB\GIS\GW_PFC_ANALYTICAL_0518.mxd 10/11/2018

APPENDIX A

FIELD NOTES

AECOM

Job WYSOCO SOH | Project No. | Page ___ of ___

Description | Computed by | Sheet 1 of 1

Checked by | Date 5/2/18

Reference

07:55 - ICSM + DM ONSITE, WENT THROUGH THA

08:15 - BEGAN DTW COLLECTION + SAMPLING, OBTAINED BLANK

	Collected	Sample Time	Notes	DTW	DTW Time
PFAS	MW-03	13:36	POLY TUBING IN WELL	5.95	08:15
	MW-14	13:47	↓	6.22	08:30
	DW-55	13:55	↓	8.32	08:45
	B1/P2-3	14:00	↓	5.16	08:00
PFAS	MW-04	—	CLEAR BOX BROKEN, COULDN'T SAMPLE, MISTAKEN	8.26	09:30
FD1-050218 -	DW-75	14:10	POLY TUBING IN WELL	3.27	09:35
PFAS	SW-32	14:20	↓	3.84	09:40
MS/MSD PFAS -	SW-33	14:30	↓ FOR MS/MSD NO PFAS & 5 X VOA VIALS	6.75	09:44
	SW-37	15:00	↓	5.98	09:50
	MW-11	15:05	↓	6.90	09:52
	MW-12	15:10	↓	5.93	09:54
PFAS -	MW-08	15:15	↓	4.35	10:15
PFAS -	MW-09	15:20	↓ ~~PFAS~~ DUP ONLY PFAS COLLECTED	5.39	10:17
PFAS -	MW-15	15:40	↓	3.05	10:46
FD2-050218 -	DW-65	15:50	↓	5.47	10:50
	MW-01	15:57	↓	4.69	10:56
	B4/P2-1	16:05	↓	7.87	11:00
	DW-45	16:10	↓	7.94	11:10
PFAS -	MW-02	16:15	↓	5.95	11:15
	MW-5	16:20	↓	6.73	11:20
	MW-16	16:25	↓	7.98	11:30
	DW-35	16:30	↓	5.31	11:32
PFAS -	MW-05	16:50	NO TUBING	3.62	11:55
	MW-06	17:10	TUBING IN WELL	0.50	~~13:00~~ 13:00
PFAS -	MW-13	17:20	NO TUBING	2.42	13:15

EB-050218 @ 16:46

FB-050218 @ 16:50

17:25 - FINISHED ~~CLEANUP~~, SAMPLING, BEGAN CLEANUP, COULDN'T SURVEY DUE TO TROUBLE WITH EQUIP

17:45 - KSM + DM OFF SITE

APPENDIX B

DATA USABILITY SUMMARY REPORT

DATA USABILITY SUMMARY REPORT

STUART-OLIVER-HOLTZ CONSTRUCTION OVERSIGHT
WORK ASSIGNMENT NO. D007622-08.1
SITE ID# 828079
HENRIETTA, NEW YORK

Analyses Performed by:

TESTAMERICA LABORATORIES, INC.
AMHERST, NEW YORK, EDISON, NEW JERSEY,
AND SACRAMENTO, CALIFORNIA

Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
REMEDIAL BUREAU B

Prepared by:

URS CORPORATION
257 WEST GENESEE STREET, SUITE 400
BUFFALO, NY 14202-2657

JULY 2018

TABLE OF CONTENTS

TABLES

(Following Text)

ATTACHMENTS

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10 Technical Guidance for Site Investigation and Remediation*, Appendix 2B - *Guidance for Data Deliverables and the Development of Data Usability Summary Reports,* May 2010.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES

The data being evaluated are from the May 2, 2018 collection of 24 groundwater samples, 2 field duplicates, 1 equipment blank, 1 field blank, and 1 trip blank. The analytical laboratory that performed the analyses is TestAmerica Laboratories, Inc. located in Amherst, NY, Edison, NJ, and Sacramento, CA. The samples were analyzed for the following parameters (not all samples were analyzed for all parameters).

Matrix	Parameter	Method
Groundwater	Target Compound List (TCL) Volatile Organic Compounds (VOCs)	SW8260C
	1,4-Dioxane	SW8260C SIM
	Per- and polyfluoroalkyl substances (PFASs)	Method 537-Modified

A limited data validation was performed following the guidelines in the following USEPA Region II document:

- *Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry, SW-846 Method 8260B & 8260C*, SOP HW-24, Rev. 4, October 2014.

Qualifications applied to the data during the limited data validation include 'J' (estimated concentration), 'NJ' (tentatively identified, estimated concentration), 'U' (non-detect), and 'UJ' (estimated quantitation limit). Definitions of USEPA data qualifiers are presented at the end of this text. A summary of data qualifications is presented on Table 1. The validated analytical results are presented on Table 2 (groundwater) and Table 3 (field QC). Validated Form Is are presented in Attachment A.

Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

III. DATA DELIVERABLE COMPLETENESS

The laboratory deliverable data packages were equivalent to NYSDEC Analytical Services Protocol (ASP) Category B requirements.

IV. SAMPLE RECEIPT/ PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved and under proper chain-of-custody, except for the following instance.

- The VOC aliquot for sample SW-33 was received slightly under preserved (i.e., sample pH was 3, method requires pH <2). The sample was not analyzed within the 7 day holding time for unpreserved samples. Although historical data does exist for this sampling point, remedial injections have been done in the past which caused the compounds detected and concentrations to fluctuate. Using professional judgement the results have been qualified 'J'/'UJ' rather than 'J'/'R' since the pH variation is so slight.

All other samples were analyzed within the required holding times.

V. NON-CONFORMANCES

- **Instrument Calibration**

  The percent difference (%D) between the initial calibration standards (ICAL) average relative response factor (RRF) and the RRF in one or more of the continuing calibration (CCAL) standards associated with the samples exceeded the QC limit of 20% for one or more of the following VOCs: 2-hexanone, bromoform, and/or dichlorodifluoromethane. The results for these compounds in the associated samples listed on Table 1 were qualified 'UJ'.

- **Method/Preparation Blanks**

  Perfluorohexanesulfonic acid (PFHxS) and/or 6:2 fluorotelomer sulfonate (6:2 FTS) were detected in the PFAS method blanks/field blanks associated with the samples listed on Table 1. Associated sample results less than the quantitation limit (QL) were qualified 'U' at the QL.

- **Chromatography**

  The matrix of sample SW-32 interfered with the identification and quantitation of PFAS perfluorobutanesulfonic acid (PFBS). The laboratory indicated in the case narrative that this interference could cause a false positive result. Based on the validators review of the chromatogram and the laboratory's narrative the result for PFBS in this sample has been qualified 'NJ'.

- **Field Duplicates**

  Field duplicates were collected at locations OW-6S and OW-7S. The field duplicate analyses exhibited good field and analytical precision.

VI. SAMPLE RESULTS AND REPORTING

All quantitation/detection limits were reported in accordance with method requirements and were adjusted for sample volume and dilution factors. Results below the QL were qualified 'J' by the laboratory.

Several samples were diluted for VOCs/VOCs (SIM) due to the color of the samples and foaming issues. In most cases target compounds were detected in the dilutions. However some samples (for example URS-06 and URS-13) were non-detect for all compounds and therefore had elevated reporting limits due to the dilutions utilized.

VII. SUMMARY

All sample analyses were found to be compliant with the method and validation criteria, except where previously noted. Those results qualified 'J', 'NJ', 'U', and 'UJ' are considered conditionally usable. All other sample results are usable as reported. URS does not recommend the recollection of any samples at this time.

Prepared By: Ann Marie Kropovitch, Chemist **Date:** 6/11/18

Reviewed By: George E. Kisluk, Senior Chemist **Date:** 6/11/18

DEFINITIONS OF USEPA DATA QUALIFIERS

U –	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J –	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
(J+) -	The result is an estimated quantity. The associated numerical value is biased high.
(J-) -	The result is an estimated quantity. The associated numerical value is biased low.
UJ –	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R –	The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.
D –	The sample result was reported from a secondary dilution analysis.
NJ –	The analysis indicates the presence of an analyte that has been "tentatively identified' and the associated numerical value represents its approximate concentration.

TABLE 1 STUART-OLIVER-HOLTZ CONSTRUCTION OVERSIGHT SUMMARY OF DATA QUALIFICATIONS			
SAMPLE ID	**FRACTION**	**ANALYTICAL DEVIATION**	**QUALIFICATION**
SW-33	VOCs	pH slightly >2, sample analyzed >7 days for unpreserved samples.	Qualify detected results 'J' and non-detects 'UJ'.
OW-6S, SW-32, SW-33, SW-37, URS-01, URS-02, URS-11, URS-12, URS-15, URS-16, and Trip Blank	VOCs	CCAL %D > 20% for bromoform.	Qualify non-detect results 'UJ'.
OW-04S and FD2 (OW-6S)	VOCs	CCAL %D > 20% for 2-hexanone and dichlorodifluoromethane.	Qualify non-detect results 'UJ'.
SW-32, SW-33, URS-02, URS-03, URS-05, URS-08, URS-09, URS-13, and URS-15	PFAS	Method blank/field blank contamination for PFHxS and/or 6:2 FTS.	Qualify results 'U' at the QL.
SW-32	PFAS	Matrix interfering with identification/quantitation of PFBS.	Qualify detected result 'NJ'.

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		B1/PZ-03	B4/PZ-01	MW-05	OW-03S	OW-04S
Sample ID		B1/PZ-3	B4/PZ-01	MW-05	OW-3S	OW-04S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	27	22	8.0 U	930
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
1,1,2-Trichloroethane	UG/L	1.0 U	0.24 J	10 U	8.0 U	20 U
1,1-Dichloroethane	UG/L	1.0 U	15	74	350	910
1,1-Dichloroethene	UG/L	1.0 U	5.8	8.5 J	41	240
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
1,2-Dichloroethane	UG/L	1.0 U	0.22 J	10 U	8.0 U	20 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	2.7	210	360	130
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
1,4-Dioxane	UG/L	NA	NA	NA	NA	NA
2-Hexanone	UG/L	5.0 U	5.0 U	50 U	40 U	100 UJ
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	50 U	40 U	100 U
Acetone	UG/L	10 U	10 U	100 U	80 U	200 U
Benzene	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Bromoform	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		B1/PZ-03	B4/PZ-01	MW-05	OW-03S	OW-04S
Sample ID		B1/PZ-3	B4/PZ-01	MW-05	OW-3S	OW-04S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	Units					
Volatile Organic Compounds						
Bromomethane	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Carbon disulfide	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Carbon tetrachloride	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Chlorobenzene	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Chloroethane	UG/L	1.0 U	0.66 J	10 U	8.0 U	20 U
Chloroform	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Chloromethane	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Cyclohexane	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 UJ
Ethylbenzene	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Methyl acetate	UG/L	2.5 U	2.5 U	25 U	20 U	50 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	100 U	80 U	200 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	3.5 J	8.0 U	20 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Methylene chloride	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Styrene	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	640	5.9 J	20 U
Toluene	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Trichloroethene	UG/L	1.0 U	2.4	200	140	25
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Vinyl chloride	UG/L	1.0 U	1.0 U	10 U	8.0 U	20 U
Xylene (total)	UG/L	2.0 U	2.0 U	20 U	16 U	40 U

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		B1/PZ-03	B4/PZ-01	MW-05	OW-03S	OW-04S
Sample ID		B1/PZ-3	B4/PZ-01	MW-05	OW-3S	OW-04S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	Units					
Per- and Polyfluoroalkyl Substances						
N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	NG/L	NA	NA	NA	NA	NA
N-Methyl perfluorooctanesulfonamidoacetic acid (NMEFOSAA)	NG/L	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NG/L	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	NA	NA	NA	NA	NA
Perfluorodecane sulfonate (PFDS)	NG/L	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NG/L	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NG/L	NA	NA	NA	NA	NA
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NG/L	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	NA	NA	NA	NA	NA
Perfluorotridecanoic acid (PFTriA)	NG/L	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUnA)	NG/L	NA	NA	NA	NA	NA
6:2 Fluorotelomer sulfonate (62FTS)	NG/L	NA	NA	NA	NA	NA
8:2 Fluorotelomer sulfonate (82FTS)	NG/L	NA	NA	NA	NA	NA
Total PFOA and PFOS	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		OW-05S	OW-06S	OW-06S	OW-07S	OW-07S
Sample ID		OW-5S	FD2-050218	OW-6S	FD1-050218	OW-7S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	Units		Field Duplicate (1-1)		Field Duplicate (1-1)	
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	0.89 J	10 U	10 U	400 U	200 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	10 U	10 U	400 U	200 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.5	10 U	10 U	400 U	200 U
1,1,2-Trichloroethane	UG/L	1.0 U	10 U	10 U	400 U	200 U
1,1-Dichloroethane	UG/L	14	26	28	1,400	1,300
1,1-Dichloroethene	UG/L	4.8	10 U	10 U	400 U	200 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	10 U	10 U	400 U	200 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	10 U	10 U	400 U	200 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	10 U	10 U	400 U	200 U
1,2-Dichlorobenzene	UG/L	1.0 U	10 U	10 U	400 U	200 U
1,2-Dichloroethane	UG/L	1.0 U	10 U	10 U	400 U	200 U
1,2-Dichloroethene (cis)	UG/L	11	520	550	10,000	10,000
1,2-Dichloroethene (trans)	UG/L	1.0 U	10 U	9.4 J	400 U	200 U
1,2-Dichloropropane	UG/L	1.0 U	10 U	10 U	400 U	200 U
1,3-Dichlorobenzene	UG/L	1.0 U	10 U	10 U	400 U	200 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	10 U	10 U	400 U	200 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	10 U	10 U	400 U	200 U
1,4-Dichlorobenzene	UG/L	1.0 U	10 U	10 U	400 U	200 U
1,4-Dioxane	UG/L	NA	NA	NA	NA	NA
2-Hexanone	UG/L	5.0 U	50 UJ	50 U	2,000 U	1,000 U
4-Methyl-2-pentanone	UG/L	5.0 U	50 U	50 U	2,000 U	1,000 U
Acetone	UG/L	10 U	100 U	100 U	4,000 U	2,000 U
Benzene	UG/L	1.0 U	10 U	10 U	400 U	200 U
Bromodichloromethane	UG/L	1.0 U	10 U	10 U	400 U	200 U
Bromoform	UG/L	1.0 U	10 U	10 UJ	400 U	200 U

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		OW-05S	OW-06S	OW-06S	OW-07S	OW-07S
Sample ID		OW-5S	FD2-050218	OW-6S	FD1-050218	OW-7S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	Units		Field Duplicate (1-1)		Field Duplicate (1-1)	
Volatile Organic Compounds						
Bromomethane	UG/L	1.0 U	10 U	10 U	400 U	200 U
Carbon disulfide	UG/L	1.0 U	10 U	10 U	400 U	200 U
Carbon tetrachloride	UG/L	1.0 U	10 U	10 U	400 U	200 U
Chlorobenzene	UG/L	1.0 U	10 U	10 U	400 U	200 U
Chloroethane	UG/L	1.0 U	10 U	10 U	400 U	200 U
Chloroform	UG/L	1.0 U	10 U	10 U	400 U	200 U
Chloromethane	UG/L	1.0 U	10 U	10 U	400 U	200 U
Cyclohexane	UG/L	1.0 U	10 U	10 U	400 U	200 U
Dibromochloromethane	UG/L	1.0 U	10 U	10 U	400 U	200 U
Dichlorodifluoromethane	UG/L	1.0 U	10 UJ	10 U	400 U	200 U
Ethylbenzene	UG/L	1.0 U	10 U	10 U	400 U	200 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	10 U	10 U	400 U	200 U
Methyl acetate	UG/L	2.5 U	25 U	25 U	1,000 U	500 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	100 U	100 U	4,000 U	2,000 U
Methyl tert-butyl ether	UG/L	1.0 U	10 U	10 U	400 U	200 U
Methylcyclohexane	UG/L	1.0 U	10 U	10 U	400 U	200 U
Methylene chloride	UG/L	1.0 U	10 U	10 U	400 U	200 U
Styrene	UG/L	1.0 U	10 U	10 U	400 U	200 U
Tetrachloroethene	UG/L	1.0 U	21	20	400 U	200 U
Toluene	UG/L	1.0 U	10 U	10 U	400 U	200 U
Trichloroethene	UG/L	33	20	19	230 J	210
Trichlorofluoromethane	UG/L	1.0 U	10 U	10 U	400 U	200 U
Vinyl chloride	UG/L	1.0 U	17	19	1,900	1,800
Xylene (total)	UG/L	2.0 U	20 U	20 U	800 U	400 U

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		OW-05S	OW-06S	OW-06S	OW-07S	OW-07S
Sample ID		OW-5S	FD2-050218	OW-6S	FD1-050218	OW-7S
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	Units		Field Duplicate (1-1)		Field Duplicate (1-1)	
Per- and Polyfluoroalkyl Substances						
N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	NG/L	NA	NA	NA	NA	NA
N-Methyl perfluorooctanesulfonamidoacetic acid (NMEFOSAA)	NG/L	NA	NA	NA	NA	NA
Perfluorobutanesulfonic acid (PFBS)	NG/L	NA	NA	NA	NA	NA
Perfluorobutanoic acid (PFBA)	NG/L	NA	NA	NA	NA	NA
Perfluorodecane sulfonate (PFDS)	NG/L	NA	NA	NA	NA	NA
Perfluorodecanoic acid (PFDA)	NG/L	NA	NA	NA	NA	NA
Perfluorododecanoic acid (PFDoA)	NG/L	NA	NA	NA	NA	NA
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	NA	NA	NA	NA	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	NA	NA	NA	NA	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	NA	NA	NA	NA	NA
Perfluorohexanoic acid (PFHxA)	NG/L	NA	NA	NA	NA	NA
Perfluorononanoic acid (PFNA)	NG/L	NA	NA	NA	NA	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	NA	NA	NA	NA	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	NA	NA	NA	NA	NA
Perfluorooctanoic acid (PFOA)	NG/L	NA	NA	NA	NA	NA
Perfluoropentanoic acid (PFPA)	NG/L	NA	NA	NA	NA	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	NA	NA	NA	NA	NA
Perfluorotridecanoic acid (PFTriA)	NG/L	NA	NA	NA	NA	NA
Perfluoroundecanoic acid (PFUnA)	NG/L	NA	NA	NA	NA	NA
6:2 Fluorotelomer sulfonate (62FTS)	NG/L	NA	NA	NA	NA	NA
8:2 Fluorotelomer sulfonate (82FTS)	NG/L	NA	NA	NA	NA	NA
Total PFOA and PFOS	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		SW-32	SW-33	SW-37	URS-01	URS-02
Sample ID		SW-32	SW-33	SW-37	URS-01	URS-02
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	630,000	10,000 UJ	1,200	420	4.0 U
1,1,2,2-Tetrachloroethane	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	20,000 U	10,000 UJ	400 U	82	4.0 U
1,1,2-Trichloroethane	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
1,1-Dichloroethane	UG/L	90,000	20,000 J	7,700	2,700 D	4.6
1,1-Dichloroethene	UG/L	20,000 U	10,000 UJ	400 U	160	4.0 U
1,2,4-Trichlorobenzene	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
1,2-Dibromo-3-chloropropane	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
1,2-Dichlorobenzene	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
1,2-Dichloroethane	UG/L	20,000 U	10,000 UJ	400 U	5.7 J	4.0 U
1,2-Dichloroethene (cis)	UG/L	20,000 U	10,000 UJ	6,200	3,700 D	4.0 U
1,2-Dichloroethene (trans)	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
1,2-Dichloropropane	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
1,3-Dichlorobenzene	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
1,3-Dichloropropene (cis)	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
1,3-Dichloropropene (trans)	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
1,4-Dichlorobenzene	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
1,4-Dioxane	UG/L	8,000	3,400 J	NA	NA	1,800
2-Hexanone	UG/L	100,000 U	50,000 UJ	2,000 U	100 U	20 U
4-Methyl-2-pentanone	UG/L	100,000 U	50,000 UJ	2,000 U	100 U	20 U
Acetone	UG/L	200,000 U	100,000 UJ	4,000 U	200 U	40 U
Benzene	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Bromodichloromethane	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Bromoform	UG/L	20,000 UJ	10,000 UJ	400 UJ	20 UJ	4.0 UJ

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		SW-32	SW-33	SW-37	URS-01	URS-02
Sample ID		SW-32	SW-33	SW-37	URS-01	URS-02
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**					
Volatile Organic Compounds						
Bromomethane	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Carbon disulfide	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Carbon tetrachloride	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Chlorobenzene	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Chloroethane	UG/L	20,000 U	16,000 J	400 U	160	2.6 J
Chloroform	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Chloromethane	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Cyclohexane	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Dibromochloromethane	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Dichlorodifluoromethane	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Ethylbenzene	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Isopropylbenzene (Cumene)	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Methyl acetate	UG/L	50,000 U	25,000 UJ	1,000 U	50 U	10 U
Methyl ethyl ketone (2-Butanone)	UG/L	200,000 U	100,000 UJ	4,000 U	200 U	40 U
Methyl tert-butyl ether	UG/L	20,000 U	10,000 UJ	400 U	20 U	7.4
Methylcyclohexane	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Methylene chloride	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Styrene	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Tetrachloroethene	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Toluene	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Trichloroethene	UG/L	20,000 U	10,000 UJ	400 U	780	4.0 U
Trichlorofluoromethane	UG/L	20,000 U	10,000 UJ	400 U	20 U	4.0 U
Vinyl chloride	UG/L	20,000 U	10,000 UJ	2,700	1,500	4.0 U
Xylene (total)	UG/L	40,000 U	20,000 UJ	800 U	40 U	8.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		SW-32	SW-33	SW-37	URS-01	URS-02
Sample ID		SW-32	SW-33	SW-37	URS-01	URS-02
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**					
Per- and Polyfluoroalkyl Substances						
N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	NG/L	17.6 U	17.5 U	NA	NA	17.1 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMEFOSAA)	NG/L	17.6 U	17.5 U	NA	NA	17.1 U
Perfluorobutanesulfonic acid (PFBS)	NG/L	8.49 NJ	1.75 U	NA	NA	2.29
Perfluorobutanoic acid (PFBA)	NG/L	98.5	64.8	NA	NA	14.6
Perfluorodecane sulfonate (PFDS)	NG/L	1.76 U	1.75 U	NA	NA	1.71 U
Perfluorodecanoic acid (PFDA)	NG/L	2.26	1.21 J	NA	NA	1.71 U
Perfluorododecanoic acid (PFDoA)	NG/L	1.76 U	1.75 U	NA	NA	1.71 U
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	0.77 J	0.81 J	NA	NA	1.71 U
Perfluoroheptanoic acid (PFHpA)	NG/L	12.0	18.7	NA	NA	2.50
Perfluorohexanesulfonic acid (PFHxS)	NG/L	3.56	4.95	NA	NA	1.71 U
Perfluorohexanoic acid (PFHxA)	NG/L	37.7	73.8	NA	NA	6.97
Perfluorononanoic acid (PFNA)	NG/L	1.73 J	2.80	NA	NA	0.44 J
Perfluorooctane sulfonamide (FOSA)	NG/L	1.76 U	1.75 U	NA	NA	1.71 U
Perfluorooctanesulfonic acid (PFOS)	NG/L	36.0	58.8	NA	NA	7.49
Perfluorooctanoic acid (PFOA)	NG/L	31.7	58.5	NA	NA	4.80
Perfluoropentanoic acid (PFPA)	NG/L	37.1	60.0	NA	NA	8.95
Perfluorotetradecanoic acid (PFTeA)	NG/L	1.76 U	1.75 U	NA	NA	1.71 U
Perfluorotridecanoic acid (PFTriA)	NG/L	1.76 U	1.75 U	NA	NA	1.71 U
Perfluoroundecanoic acid (PFUnA)	NG/L	1.76 U	1.75 U	NA	NA	1.71 U
6:2 Fluorotelomer sulfonate (62FTS)	NG/L	17.6 U	17.5 U	NA	NA	17.1 U
8:2 Fluorotelomer sulfonate (82FTS)	NG/L	17.6 U	17.5 U	NA	NA	17.1 U
Total PFOA and PFOS	NG/L	67.7	117	NA	NA	12.3

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		URS-03	URS-05	URS-06	URS-08	URS-09
Sample ID		URS-03	URS-05	URS-06	URS-08	URS-09
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	640	1.0 U	4.0 U	0.96 J	NA
1,1,2,2-Tetrachloroethane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	140	1.0 U	4.0 U	1.0 U	NA
1,1,2-Trichloroethane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,1-Dichloroethane	UG/L	210	1.0 U	4.0 U	1.0	NA
1,1-Dichloroethene	UG/L	16	1.0 U	4.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,2-Dibromo-3-chloropropane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,2-Dibromoethane (Ethylene dibromide)	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,2-Dichlorobenzene	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,2-Dichloroethane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,2-Dichloroethene (cis)	UG/L	35	1.0 U	4.0 U	1.0 U	NA
1,2-Dichloroethene (trans)	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,2-Dichloropropane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,3-Dichlorobenzene	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,3-Dichloropropene (cis)	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,3-Dichloropropene (trans)	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,4-Dichlorobenzene	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
1,4-Dioxane	UG/L	62	0.40 U	NA	0.40 U	NA
2-Hexanone	UG/L	50 U	5.0 U	20 U	5.0 U	NA
4-Methyl-2-pentanone	UG/L	50 U	5.0 U	20 U	5.0 U	NA
Acetone	UG/L	100 U	10 U	40 U	10 U	NA
Benzene	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Bromodichloromethane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Bromoform	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		URS-03	URS-05	URS-06	URS-08	URS-09
Sample ID		URS-03	URS-05	URS-06	URS-08	URS-09
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**					
Volatile Organic Compounds						
Bromomethane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Carbon disulfide	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Carbon tetrachloride	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Chlorobenzene	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Chloroethane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Chloroform	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Chloromethane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Cyclohexane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Dibromochloromethane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Dichlorodifluoromethane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Ethylbenzene	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Isopropylbenzene (Cumene)	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Methyl acetate	UG/L	25 U	2.5 U	10 U	2.5 U	NA
Methyl ethyl ketone (2-Butanone)	UG/L	100 U	10 U	40 U	10 U	NA
Methyl tert-butyl ether	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Methylcyclohexane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Methylene chloride	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Styrene	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Tetrachloroethene	UG/L	5.1 J	1.0 U	4.0 U	1.0 U	NA
Toluene	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Trichloroethene	UG/L	37	1.0 U	4.0 U	1.0 U	NA
Trichlorofluoromethane	UG/L	10 U	1.0 U	4.0 U	1.0 U	NA
Vinyl chloride	UG/L	14	1.0 U	4.0 U	1.0 U	NA
Xylene (total)	UG/L	20 U	2.0 U	8.0 U	2.0 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		URS-03	URS-05	URS-06	URS-08	URS-09
Sample ID		URS-03	URS-05	URS-06	URS-08	URS-09
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**					
Per- and Polyfluoroalkyl Substances						
N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	NG/L	22.0 U	16.8 U	NA	20.7 U	22.2 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMEFOSAA)	NG/L	22.0 U	16.8 U	NA	20.7 U	22.2 U
Perfluorobutanesulfonic acid (PFBS)	NG/L	0.96 J	1.36 J	NA	1.20 J	1.37 J
Perfluorobutanoic acid (PFBA)	NG/L	8.85	63.7	NA	18.9	7.75
Perfluorodecane sulfonate (PFDS)	NG/L	2.20 U	1.68 U	NA	2.07 U	2.22 U
Perfluorodecanoic acid (PFDA)	NG/L	3.39	1.68 U	NA	5.64	1.44 J
Perfluorododecanoic acid (PFDoA)	NG/L	1.65 J	1.68 U	NA	2.07 U	2.22 U
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	0.64 J	1.68 U	NA	1.0 J	1.13 J
Perfluoroheptanoic acid (PFHpA)	NG/L	4.88	1.65 J	NA	11.5	2.30
Perfluorohexanesulfonic acid (PFHxS)	NG/L	2.43	1.68 U	NA	2.79	3.01
Perfluorohexanoic acid (PFHxA)	NG/L	9.45	2.52	NA	25.6	4.84
Perfluorononanoic acid (PFNA)	NG/L	2.19 J	0.63 J	NA	2.93	0.83 J
Perfluorooctane sulfonamide (FOSA)	NG/L	0.43 J	1.68 U	NA	2.07 U	2.22 U
Perfluorooctanesulfonic acid (PFOS)	NG/L	56.7	12.6	NA	65.6	187
Perfluorooctanoic acid (PFOA)	NG/L	15.9	2.19	NA	25.9	5.12
Perfluoropentanoic acid (PFPA)	NG/L	9.21	2.24	NA	25.6	2.08 J
Perfluorotetradecanoic acid (PFTeA)	NG/L	2.20 U	1.68 U	NA	2.07 U	2.22 U
Perfluorotridecanoic acid (PFTriA)	NG/L	2.20 U	1.68 U	NA	2.07 U	2.22 U
Perfluoroundecanoic acid (PFUnA)	NG/L	2.20 U	1.68 U	NA	2.07 U	2.22 U
6:2 Fluorotelomer sulfonate (62FTS)	NG/L	22.0 U	16.8 U	NA	20.7 U	22.2 U
8:2 Fluorotelomer sulfonate (82FTS)	NG/L	22.0 U	16.8 U	NA	20.7 U	22.2 U
Total PFOA and PFOS	NG/L	72.6	14.8	NA	91.5	192

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		URS-11	URS-12	URS-13	URS-14	URS-15
Sample ID		URS-11	URS-12	URS-13	URS-14	URS-15
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,1,2,2-Tetrachloroethane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,1,2-Trichloroethane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,1-Dichloroethane	UG/L	6,100	10 U	2.0 U	1.0 U	640
1,1-Dichloroethene	UG/L	1,000 U	10 U	2.0 U	1.0 U	31
1,2,4-Trichlorobenzene	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,2-Dibromo-3-chloropropane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,2-Dichlorobenzene	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,2-Dichloroethane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,2-Dichloroethene (cis)	UG/L	1,000 U	10 U	2.0 U	1.0 U	2,300 D
1,2-Dichloroethene (trans)	UG/L	1,000 U	10 U	2.0 U	1.0 U	120
1,2-Dichloropropane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,3-Dichlorobenzene	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,3-Dichloropropene (cis)	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,3-Dichloropropene (trans)	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,4-Dichlorobenzene	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
1,4-Dioxane	UG/L	NA	NA	2.2	NA	89
2-Hexanone	UG/L	5,000 U	50 U	10 U	5.0 U	100 U
4-Methyl-2-pentanone	UG/L	5,000 U	50 U	10 U	5.0 U	100 U
Acetone	UG/L	10,000 U	100 U	20 U	10 U	200 U
Benzene	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Bromodichloromethane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Bromoform	UG/L	1,000 UJ	10 UJ	2.0 U	1.0 U	20 UJ

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		URS-11	URS-12	URS-13	URS-14	URS-15
Sample ID		URS-11	URS-12	URS-13	URS-14	URS-15
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	Units					
Volatile Organic Compounds						
Bromomethane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Carbon disulfide	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Carbon tetrachloride	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Chlorobenzene	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Chloroethane	UG/L	22,000	10 U	2.0 U	1.0 U	120
Chloroform	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Chloromethane	UG/L	400 J	10 U	2.0 U	1.0 U	20 U
Cyclohexane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Dibromochloromethane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Dichlorodifluoromethane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Ethylbenzene	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Isopropylbenzene (Cumene)	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Methyl acetate	UG/L	2,500 U	25 U	5.0 U	2.5 U	50 U
Methyl ethyl ketone (2-Butanone)	UG/L	10,000 U	100 U	20 U	10 U	200 U
Methyl tert-butyl ether	UG/L	1,000 U	10 U	0.37 J	1.0 U	20 U
Methylcyclohexane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Methylene chloride	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Styrene	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Tetrachloroethene	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Toluene	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Trichloroethene	UG/L	1,000 U	10 U	2.0 U	1.0 U	13 J
Trichlorofluoromethane	UG/L	1,000 U	10 U	2.0 U	1.0 U	20 U
Vinyl chloride	UG/L	1,000 U	10 U	2.0 U	1.0 U	2,000 D
Xylene (total)	UG/L	2,000 U	20 U	4.0 U	2.0 U	40 U

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		URS-11	URS-12	URS-13	URS-14	URS-15
Sample ID		URS-11	URS-12	URS-13	URS-14	URS-15
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18	05/02/18	05/02/18
Parameter	**Units**					
Per- and Polyfluoroalkyl Substances						
N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	NG/L	NA	NA	19.8 U	NA	20.2 U
N-Methyl perfluorooctanesulfonamidoacetic acid (NMEFOSAA)	NG/L	NA	NA	19.8 U	NA	20.2 U
Perfluorobutanesulfonic acid (PFBS)	NG/L	NA	NA	4.71	NA	2.02 U
Perfluorobutanoic acid (PFBA)	NG/L	NA	NA	64.6	NA	34.2
Perfluorodecane sulfonate (PFDS)	NG/L	NA	NA	1.98 U	NA	2.02 U
Perfluorodecanoic acid (PFDA)	NG/L	NA	NA	11.4	NA	0.70 J
Perfluorododecanoic acid (PFDoA)	NG/L	NA	NA	1.22 J	NA	2.02 U
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	NA	NA	2.02	NA	0.95 J
Perfluoroheptanoic acid (PFHpA)	NG/L	NA	NA	71.0	NA	18.5
Perfluorohexanesulfonic acid (PFHxS)	NG/L	NA	NA	9.27	NA	4.58
Perfluorohexanoic acid (PFHxA)	NG/L	NA	NA	119	NA	55.3
Perfluorononanoic acid (PFNA)	NG/L	NA	NA	36.4	NA	2.07
Perfluorooctane sulfonamide (FOSA)	NG/L	NA	NA	1.98 U	NA	2.02 U
Perfluorooctanesulfonic acid (PFOS)	NG/L	NA	NA	51.4	NA	46.0
Perfluorooctanoic acid (PFOA)	NG/L	NA	NA	112	NA	33.8
Perfluoropentanoic acid (PFPA)	NG/L	NA	NA	133	NA	49.0
Perfluorotetradecanoic acid (PFTeA)	NG/L	NA	NA	1.98 U	NA	0.62 J
Perfluorotridecanoic acid (PFTriA)	NG/L	NA	NA	1.98 U	NA	2.02 U
Perfluoroundecanoic acid (PFUnA)	NG/L	NA	NA	1.58 J	NA	2.02 U
6:2 Fluorotelomer sulfonate (62FTS)	NG/L	NA	NA	19.8 U	NA	20.2 U
8:2 Fluorotelomer sulfonate (82FTS)	NG/L	NA	NA	19.8 U	NA	20.2 U
Total PFOA and PFOS	NG/L	NA	NA	163	NA	79.8

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		URS-16
Sample ID		URS-16
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		05/02/18
Parameter	**Units**	
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/L	80 U
1,1,2,2-Tetrachloroethane	UG/L	80 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	80 U
1,1,2-Trichloroethane	UG/L	80 U
1,1-Dichloroethane	UG/L	260
1,1-Dichloroethene	UG/L	80 U
1,2,4-Trichlorobenzene	UG/L	80 U
1,2-Dibromo-3-chloropropane	UG/L	80 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	80 U
1,2-Dichlorobenzene	UG/L	80 U
1,2-Dichloroethane	UG/L	80 U
1,2-Dichloroethene (cis)	UG/L	1,800
1,2-Dichloroethene (trans)	UG/L	80 U
1,2-Dichloropropane	UG/L	80 U
1,3-Dichlorobenzene	UG/L	80 U
1,3-Dichloropropene (cis)	UG/L	80 U
1,3-Dichloropropene (trans)	UG/L	80 U
1,4-Dichlorobenzene	UG/L	80 U
1,4-Dioxane	UG/L	NA
2-Hexanone	UG/L	400 U
4-Methyl-2-pentanone	UG/L	400 U
Acetone	UG/L	800 U
Benzene	UG/L	80 U
Bromodichloromethane	UG/L	80 U
Bromoform	UG/L	80 UJ

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		URS-16
Sample ID		URS-16
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		05/02/18
Parameter	**Units**	
Volatile Organic Compounds		
Bromomethane	UG/L	80 U
Carbon disulfide	UG/L	80 U
Carbon tetrachloride	UG/L	80 U
Chlorobenzene	UG/L	80 U
Chloroethane	UG/L	80 U
Chloroform	UG/L	80 U
Chloromethane	UG/L	80 U
Cyclohexane	UG/L	80 U
Dibromochloromethane	UG/L	80 U
Dichlorodifluoromethane	UG/L	80 U
Ethylbenzene	UG/L	80 U
Isopropylbenzene (Cumene)	UG/L	80 U
Methyl acetate	UG/L	200 U
Methyl ethyl ketone (2-Butanone)	UG/L	800 U
Methyl tert-butyl ether	UG/L	80 U
Methylcyclohexane	UG/L	80 U
Methylene chloride	UG/L	80 U
Styrene	UG/L	80 U
Tetrachloroethene	UG/L	2,600
Toluene	UG/L	80 U
Trichloroethene	UG/L	630
Trichlorofluoromethane	UG/L	80 U
Vinyl chloride	UG/L	95
Xylene (total)	UG/L	160 U

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 2
VALIDATED GROUNDWATER SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		URS-16
Sample ID		URS-16
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		05/02/18
Parameter	**Units**	
Per- and Polyfluoroalkyl Substances		
N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	NG/L	NA
N-Methyl perfluorooctanesulfonamidoacetic acid (NMEFOSAA)	NG/L	NA
Perfluorobutanesulfonic acid (PFBS)	NG/L	NA
Perfluorobutanoic acid (PFBA)	NG/L	NA
Perfluorodecane sulfonate (PFDS)	NG/L	NA
Perfluorodecanoic acid (PFDA)	NG/L	NA
Perfluorododecanoic acid (PFDoA)	NG/L	NA
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	NA
Perfluorohexanoic acid (PFHxA)	NG/L	NA
Perfluorononanoic acid (PFNA)	NG/L	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	NA
Perfluorooctanoic acid (PFOA)	NG/L	NA
Perfluoropentanoic acid (PFPA)	NG/L	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	NA
Perfluorotridecanoic acid (PFTriA)	NG/L	NA
Perfluoroundecanoic acid (PFUnA)	NG/L	NA
6:2 Fluorotelomer sulfonate (62FTS)	NG/L	NA
8:2 Fluorotelomer sulfonate (82FTS)	NG/L	NA
Total PFOA and PFOS	NG/L	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: 6/11/18

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		EB-050218	FB-050218	TRIP BLANK
Matrix		Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18
Parameter	Units	Equipment Blank (1-1)	Field Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds				
1,1,1-Trichloroethane	UG/L	NA	NA	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	NA	NA	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	NA	NA	1.0 U
1,1,2-Trichloroethane	UG/L	NA	NA	1.0 U
1,1-Dichloroethane	UG/L	NA	NA	1.0 U
1,1-Dichloroethene	UG/L	NA	NA	1.0 U
1,2,4-Trichlorobenzene	UG/L	NA	NA	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	NA	NA	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	NA	NA	1.0 U
1,2-Dichlorobenzene	UG/L	NA	NA	1.0 U
1,2-Dichloroethane	UG/L	NA	NA	1.0 U
1,2-Dichloroethene (cis)	UG/L	NA	NA	1.0 U
1,2-Dichloroethene (trans)	UG/L	NA	NA	1.0 U
1,2-Dichloropropane	UG/L	NA	NA	1.0 U
1,3-Dichlorobenzene	UG/L	NA	NA	1.0 U
1,3-Dichloropropene (cis)	UG/L	NA	NA	1.0 U
1,3-Dichloropropene (trans)	UG/L	NA	NA	1.0 U
1,4-Dichlorobenzene	UG/L	NA	NA	1.0 U
2-Hexanone	UG/L	NA	NA	5.0 U
4-Methyl-2-pentanone	UG/L	NA	NA	5.0 U
Acetone	UG/L	NA	NA	3.7 J
Benzene	UG/L	NA	NA	1.0 U
Bromodichloromethane	UG/L	NA	NA	1.0 U
Bromoform	UG/L	NA	NA	1.0 UJ
Bromomethane	UG/L	NA	NA	1.0 U

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: GEK 6/11/18

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		EB-050218	FB-050218	TRIP BLANK
Matrix		Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18
Parameter	Units	Equipment Blank (1-1)	Field Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds				
Carbon disulfide	UG/L	NA	NA	1.0 U
Carbon tetrachloride	UG/L	NA	NA	1.0 U
Chlorobenzene	UG/L	NA	NA	1.0 U
Chloroethane	UG/L	NA	NA	1.0 U
Chloroform	UG/L	NA	NA	1.0 U
Chloromethane	UG/L	NA	NA	1.0 U
Cyclohexane	UG/L	NA	NA	1.0 U
Dibromochloromethane	UG/L	NA	NA	1.0 U
Dichlorodifluoromethane	UG/L	NA	NA	1.0 U
Ethylbenzene	UG/L	NA	NA	1.0 U
Isopropylbenzene (Cumene)	UG/L	NA	NA	1.0 U
Methyl acetate	UG/L	NA	NA	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/L	NA	NA	10 U
Methyl tert-butyl ether	UG/L	NA	NA	1.0 U
Methylcyclohexane	UG/L	NA	NA	1.0 U
Methylene chloride	UG/L	NA	NA	1.0 U
Styrene	UG/L	NA	NA	1.0 U
Tetrachloroethene	UG/L	NA	NA	1.0 U
Toluene	UG/L	NA	NA	1.0 U
Trichloroethene	UG/L	NA	NA	1.0 U
Trichlorofluoromethane	UG/L	NA	NA	1.0 U
Vinyl chloride	UG/L	NA	NA	1.0 U
Xylene (total)	UG/L	NA	NA	2.0 U
Per- and Polyfluoroalkyl Substances				
N-Methyl perfluorooctanesulfonamidoacetic acid (NMEFOSAA)	NG/L	17.2 U	18.1 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: GEK 6/11/18

Detection Limits shown are PQL

TABLE 3
VALIDATED FIELD QC SAMPLE ANALYTICAL RESULTS
STUART OLVER HOLTZ SITE

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		EB-050218	FB-050218	TRIP BLANK
Matrix		Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-
Date Sampled		05/02/18	05/02/18	05/02/18
Parameter	Units	Equipment Blank (1-1)	Field Blank (1-1)	Trip Blank (1-1)
Per- and Polyfluoroalkyl Substances				
Perfluorobutanesulfonic acid (PFBS)	NG/L	1.72 U	1.81 U	NA
Perfluorobutanoic acid (PFBA)	NG/L	1.72 U	1.81 U	NA
Perfluorodecane sulfonate (PFDS)	NG/L	1.72 U	1.81 U	NA
Perfluorodecanoic acid (PFDA)	NG/L	1.72 U	1.81 U	NA
N-Ethyl perfluorooctanesulfonamidoacetic acid (NETFOSAA)	NG/L	17.2 U	18.1 U	NA
Perfluorododecanoic acid (PFDoA)	NG/L	1.72 U	1.81 U	NA
Perfluoro-1-heptanesulfonate (PFHPS)	NG/L	1.72 U	1.81 U	NA
Perfluoroheptanoic acid (PFHpA)	NG/L	1.72 U	1.81 U	NA
Perfluorohexanesulfonic acid (PFHxS)	NG/L	0.21 J	0.24 J	NA
Perfluorohexanoic acid (PFHxA)	NG/L	1.72 U	1.81 U	NA
Perfluorononanoic acid (PFNA)	NG/L	1.72 U	1.81 U	NA
Perfluorooctane sulfonamide (FOSA)	NG/L	1.72 U	1.81 U	NA
Perfluorooctanesulfonic acid (PFOS)	NG/L	1.72 U	1.81 U	NA
Perfluorooctanoic acid (PFOA)	NG/L	1.72 U	1.81 U	NA
Perfluoropentanoic acid (PFPA)	NG/L	1.72 U	1.81 U	NA
Perfluorotetradecanoic acid (PFTeA)	NG/L	1.72 U	1.81 U	NA
Perfluorotridecanoic acid (PFTriA)	NG/L	1.72 U	1.81 U	NA
Perfluoroundecanoic acid (PFUnA)	NG/L	1.72 U	1.81 U	NA
6:2 Fluorotelomer sulfonate (62FTS)	NG/L	1.72 J	2.09 J	NA
8:2 Fluorotelomer sulfonate (82FTS)	NG/L	17.2 U	18.1 U	NA

Flags assigned during chemistry validation are shown.

Made By: AMK 6/7/18
Checked By: GEK 6/11/18

Detection Limits shown are PQL

ATTACHMENT A

VALIDATED FORM Is

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: B1/PZ-3 | Lab Sample ID: 480-135305-4

Matrix: Water | Lab File ID: P32708.D

Analysis Method: 8260C | Date Collected: 05/02/2018 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 13:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
110-82-7	Cyclohexane	ND		1.0	0.18
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: B1/PZ-3 | Lab Sample ID: 480-135305-4

Matrix: Water | Lab File ID: P32708.D

Analysis Method: 8260C | Date Collected: 05/02/2018 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 13:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
100-42-5	Styrene	ND		1.0	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
2037-26-5	Toluene-d8 (Surr)	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: B4/PZ-01 | Lab Sample ID: 480-135305-17

Matrix: Water | Lab File ID: P32714.D

Analysis Method: 8260C | Date Collected: 05/02/2018 16:05

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 16:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.24	J	1.0	0.23
75-34-3	1,1-Dichloroethane	15		1.0	0.38
75-35-4	1,1-Dichloroethene	5.8		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	0.22	J	1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	0.66	J	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	2.7		1.0	0.81
110-82-7	Cyclohexane	ND		1.0	0.18
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: B4/PZ-01 | Lab Sample ID: 480-135305-17

Matrix: Water | Lab File ID: P32714.D

Analysis Method: 8260C | Date Collected: 05/02/2018 16:05

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 16:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	2.4		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
100-42-5	Styrene	ND		1.0	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
460-00-4	4-Bromofluorobenzene (Surr)	87		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: MW-05 | Lab Sample ID: 480-135305-20

Matrix: Water | Lab File ID: P32716.D

Analysis Method: 8260C | Date Collected: 05/02/2018 16:20

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 17:26

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
75-34-3	1,1-Dichloroethane	74		10	3.8
75-35-4	1,1-Dichloroethene	8.5	J	10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	ND		10	4.1
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	210		10	8.1
110-82-7	Cyclohexane	ND		10	1.8
75-27-4	Bromodichloromethane	ND		10	3.9
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	ND		10	7.9
79-20-9	Methyl acetate	ND		25	13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: MW-05 | Lab Sample ID: 480-135305-20

Matrix: Water | Lab File ID: P32716.D

Analysis Method: 8260C | Date Collected: 05/02/2018 16:20

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 17:26

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	3.5	J	10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
127-18-4	Tetrachloroethene	640		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	200		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	ND		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
100-42-5	Styrene	ND		10	7.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		77-120
460-00-4	4-Bromofluorobenzene (Surr)	88		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-135305-1

SDG No.:

Client Sample ID: OW-3S Lab Sample ID: 480-135305-22

Matrix: Water Lab File ID: P32715.D

Analysis Method: 8260C Date Collected: 05/02/2018 16:30

Sample wt/vol: 5(mL) Date Analyzed: 05/10/2018 16:58

Soil Aliquot Vol: Dilution Factor: 8

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 413540 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		8.0	6.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		8.0	1.7
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5
79-00-5	1,1,2-Trichloroethane	ND		8.0	1.8
75-34-3	1,1-Dichloroethane	350		8.0	3.0
75-35-4	1,1-Dichloroethene	41		8.0	2.3
120-82-1	1,2,4-Trichlorobenzene	ND		8.0	3.3
96-12-8	1,2-Dibromo-3-Chloropropane	ND		8.0	3.1
95-50-1	1,2-Dichlorobenzene	ND		8.0	6.3
107-06-2	1,2-Dichloroethane	ND		8.0	1.7
78-87-5	1,2-Dichloropropane	ND		8.0	5.8
541-73-1	1,3-Dichlorobenzene	ND		8.0	6.2
106-46-7	1,4-Dichlorobenzene	ND		8.0	6.7
78-93-3	2-Butanone (MEK)	ND		80	11
591-78-6	2-Hexanone	ND		40	9.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		40	17
67-64-1	Acetone	ND		80	24
71-43-2	Benzene	ND		8.0	3.3
75-25-2	Bromoform	ND		8.0	2.1
74-83-9	Bromomethane	ND		8.0	5.5
75-15-0	Carbon disulfide	ND		8.0	1.5
56-23-5	Carbon tetrachloride	ND		8.0	2.2
108-90-7	Chlorobenzene	ND		8.0	6.0
124-48-1	Dibromochloromethane	ND		8.0	2.6
75-00-3	Chloroethane	ND		8.0	2.6
67-66-3	Chloroform	ND		8.0	2.7
74-87-3	Chloromethane	ND		8.0	2.8
156-59-2	cis-1,2-Dichloroethene	360		8.0	6.5
110-82-7	Cyclohexane	ND		8.0	1.4
75-27-4	Bromodichloromethane	ND		8.0	3.1
75-71-8	Dichlorodifluoromethane	ND		8.0	5.4
100-41-4	Ethylbenzene	ND		8.0	5.9
106-93-4	1,2-Dibromoethane	ND		8.0	5.8
98-82-8	Isopropylbenzene	ND		8.0	6.3
79-20-9	Methyl acetate	ND		20	10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: OW-3S | Lab Sample ID: 480-135305-22

Matrix: Water | Lab File ID: P32715.D

Analysis Method: 8260C | Date Collected: 05/02/2018 16:30

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 16:58

Soil Aliquot Vol: | Dilution Factor: 8

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		8.0	1.3
108-87-2	Methylcyclohexane	ND		8.0	1.3
75-09-2	Methylene Chloride	ND		8.0	3.5
127-18-4	Tetrachloroethene	5.9	J	8.0	2.9
108-88-3	Toluene	ND		8.0	4.1
156-60-5	trans-1,2-Dichloroethene	ND		8.0	7.2
10061-02-6	trans-1,3-Dichloropropene	ND		8.0	3.0
79-01-6	Trichloroethene	140		8.0	3.7
75-69-4	Trichlorofluoromethane	ND		8.0	7.0
75-01-4	Vinyl chloride	ND		8.0	7.2
1330-20-7	Xylenes, Total	ND		16	5.3
10061-01-5	cis-1,3-Dichloropropene	ND		8.0	2.9
100-42-5	Styrene	ND		8.0	5.8

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1
SDG No.:
Client Sample ID: OW-04S | Lab Sample ID: 480-135305-18
Matrix: Water | Lab File ID: P32729.D
Analysis Method: 8260C | Date Collected: 05/02/2018 16:10
Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 23:55
Soil Aliquot Vol: | Dilution Factor: 20
Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 413745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	930		20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2
79-00-5	1,1,2-Trichloroethane	ND		20	4.6
75-34-3	1,1-Dichloroethane	910		20	7.6
75-35-4	1,1-Dichloroethene	240		20	5.8
120-82-1	1,2,4-Trichlorobenzene	ND		20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND		20	7.8
95-50-1	1,2-Dichlorobenzene	ND		20	16
107-06-2	1,2-Dichloroethane	ND		20	4.2
78-87-5	1,2-Dichloropropane	ND		20	14
541-73-1	1,3-Dichlorobenzene	ND		20	16
106-46-7	1,4-Dichlorobenzene	ND		20	17
78-93-3	2-Butanone (MEK)	ND		200	26
591-78-6	2-Hexanone	ND	UJ	100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	42
67-64-1	Acetone	ND		200	60
71-43-2	Benzene	ND		20	8.2
75-25-2	Bromoform	ND		20	5.2
74-83-9	Bromomethane	ND		20	14
75-15-0	Carbon disulfide	ND		20	3.8
56-23-5	Carbon tetrachloride	ND		20	5.4
108-90-7	Chlorobenzene	ND		20	15
124-48-1	Dibromochloromethane	ND		20	6.4
75-00-3	Chloroethane	ND		20	6.4
67-66-3	Chloroform	ND		20	6.8
74-87-3	Chloromethane	ND		20	7.0
156-59-2	cis-1,2-Dichloroethene	130		20	16
110-82-7	Cyclohexane	ND		20	3.6
75-27-4	Bromodichloromethane	ND		20	7.8
75-71-8	Dichlorodifluoromethane	ND	UJ	20	14
100-41-4	Ethylbenzene	ND		20	15
106-93-4	1,2-Dibromoethane	ND		20	15
98-82-8	Isopropylbenzene	ND		20	16
79-20-9	Methyl acetate	ND		50	26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: OW-04S | Lab Sample ID: 480-135305-18

Matrix: Water | Lab File ID: P32729.D

Analysis Method: 8260C | Date Collected: 05/02/2018 16:10

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 23:55

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		20	3.2
108-87-2	Methylcyclohexane	ND		20	3.2
75-09-2	Methylene Chloride	ND		20	8.8
127-18-4	Tetrachloroethene	ND		20	7.2
108-88-3	Toluene	ND		20	10
156-60-5	trans-1,2-Dichloroethene	ND		20	18
10061-02-6	trans-1,3-Dichloropropene	ND		20	7.4
79-01-6	Trichloroethene	25		20	9.2
75-69-4	Trichlorofluoromethane	ND		20	18
75-01-4	Vinyl chloride	ND		20	18
1330-20-7	Xylenes, Total	ND		40	13
10061-01-5	cis-1,3-Dichloropropene	ND		20	7.2
100-42-5	Styrene	ND		20	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: OW-5S | Lab Sample ID: 480-135305-3

Matrix: Water | Lab File ID: P32707.D

Analysis Method: 8260C | Date Collected: 05/02/2018 13:55

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 13:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.89	J	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.5		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	14		1.0	0.38
75-35-4	1,1-Dichloroethene	4.8		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	11		1.0	0.81
110-82-7	Cyclohexane	ND		1.0	0.18
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: OW-5S | Lab Sample ID: 480-135305-3

Matrix: Water | Lab File ID: P32707.D

Analysis Method: 8260C | Date Collected: 05/02/2018 13:55

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 13:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	33		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
100-42-5	Styrene	ND		1.0	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		77-120
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: OW-6S | Lab Sample ID: 480-135305-15

Matrix: Water | Lab File ID: P32691.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:50

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 04:55

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
75-34-3	1,1-Dichloroethane	28		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	ND		10	4.1
75-25-2	Bromoform	ND	UJ	10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	550		10	8.1
110-82-7	Cyclohexane	ND		10	1.8
75-27-4	Bromodichloromethane	ND		10	3.9
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	ND		10	7.9
79-20-9	Methyl acetate	ND		25	13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: OW-6S | Lab Sample ID: 480-135305-15

Matrix: Water | Lab File ID: P32691.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:50

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 04:55

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
127-18-4	Tetrachloroethene	20		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	9.4	J	10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	19		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	19		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
100-42-5	Styrene	ND		10	7.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

OW-65

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1
SDG No.:
Client Sample ID: FD2-050218 | Lab Sample ID: 480-135305-23
Matrix: Water | Lab File ID: P32730.D
Analysis Method: 8260C | Date Collected: 05/02/2018 00:00
Sample wt/vol: 5(mL) | Date Analyzed: 05/11/2018 00:22
Soil Aliquot Vol: | Dilution Factor: 10
Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 413745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
75-34-3	1,1-Dichloroethane	26		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND	UJ	50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	ND		10	4.1
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	520		10	8.1
110-82-7	Cyclohexane	ND		10	1.8
75-27-4	Bromodichloromethane	ND		10	3.9
75-71-8	Dichlorodifluoromethane	ND	UJ	10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	ND		10	7.9
79-20-9	Methyl acetate	ND		25	13

OW-65

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1
SDG No.:
Client Sample ID: FD2-050218 | Lab Sample ID: 480-135305-23
Matrix: Water | Lab File ID: P32730.D
Analysis Method: 8260C | Date Collected: 05/02/2018 00:00
Sample wt/vol: 5(mL) | Date Analyzed: 05/11/2018 00:22
Soil Aliquot Vol: | Dilution Factor: 10
Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 413745 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
127-18-4	Tetrachloroethene	21		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	20		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	17		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
100-42-5	Styrene	ND		10	7.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		77-120
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

6/5/18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: OW-7S | Lab Sample ID: 480-135305-6

Matrix: Water | Lab File ID: P32710.D

Analysis Method: 8260C | Date Collected: 05/02/2018 14:10

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 14:41

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		200	160
79-34-5	1,1,2,2-Tetrachloroethane	ND		200	42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		200	62
79-00-5	1,1,2-Trichloroethane	ND		200	46
75-34-3	1,1-Dichloroethane	1300		200	76
75-35-4	1,1-Dichloroethene	ND		200	58
120-82-1	1,2,4-Trichlorobenzene	ND		200	82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		200	78
95-50-1	1,2-Dichlorobenzene	ND		200	160
107-06-2	1,2-Dichloroethane	ND		200	42
78-87-5	1,2-Dichloropropane	ND		200	140
541-73-1	1,3-Dichlorobenzene	ND		200	160
106-46-7	1,4-Dichlorobenzene	ND		200	170
78-93-3	2-Butanone (MEK)	ND		2000	260
591-78-6	2-Hexanone	ND		1000	250
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		1000	420
67-64-1	Acetone	ND		2000	600
71-43-2	Benzene	ND		200	82
75-25-2	Bromoform	ND		200	52
74-83-9	Bromomethane	ND		200	140
75-15-0	Carbon disulfide	ND		200	38
56-23-5	Carbon tetrachloride	ND		200	54
108-90-7	Chlorobenzene	ND		200	150
124-48-1	Dibromochloromethane	ND		200	64
75-00-3	Chloroethane	ND		200	64
67-66-3	Chloroform	ND		200	68
74-87-3	Chloromethane	ND		200	70
156-59-2	cis-1,2-Dichloroethene	10000		200	160
110-82-7	Cyclohexane	ND		200	36
75-27-4	Bromodichloromethane	ND		200	78
75-71-8	Dichlorodifluoromethane	ND		200	140
100-41-4	Ethylbenzene	ND		200	150
106-93-4	1,2-Dibromoethane	ND		200	150
98-82-8	Isopropylbenzene	ND		200	160
79-20-9	Methyl acetate	ND		500	260

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: OW-7S | Lab Sample ID: 480-135305-6

Matrix: Water | Lab File ID: P32710.D

Analysis Method: 8260C | Date Collected: 05/02/2018 14:10

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 14:41

Soil Aliquot Vol: | Dilution Factor: 200

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		200	32
108-87-2	Methylcyclohexane	ND		200	32
75-09-2	Methylene Chloride	ND		200	88
127-18-4	Tetrachloroethene	ND		200	72
108-88-3	Toluene	ND		200	100
156-60-5	trans-1,2-Dichloroethene	ND		200	180
10061-02-6	trans-1,3-Dichloropropene	ND		200	74
79-01-6	Trichloroethene	210		200	92
75-69-4	Trichlorofluoromethane	ND		200	180
75-01-4	Vinyl chloride	1800		200	180
1330-20-7	Xylenes, Total	ND		400	130
10061-01-5	cis-1,3-Dichloropropene	ND		200	72
100-42-5	Styrene	ND		200	150

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		77-120
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
2037-26-5	Toluene-d8 (Surr)	92		80-120

OW-75

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1
SDG No.:
Client Sample ID: FD1-050218 | Lab Sample ID: 480-135305-5
Matrix: Water | Lab File ID: P32709.D
Analysis Method: 8260C | Date Collected: 05/02/2018 00:00
Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 14:14
Soil Aliquot Vol: | Dilution Factor: 400
Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		400	330
79-34-5	1,1,2,2-Tetrachloroethane	ND		400	84
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		400	120
79-00-5	1,1,2-Trichloroethane	ND		400	92
75-34-3	1,1-Dichloroethane	1400		400	150
75-35-4	1,1-Dichloroethene	ND		400	120
120-82-1	1,2,4-Trichlorobenzene	ND		400	160
96-12-8	1,2-Dibromo-3-Chloropropane	ND		400	160
95-50-1	1,2-Dichlorobenzene	ND		400	320
107-06-2	1,2-Dichloroethane	ND		400	84
78-87-5	1,2-Dichloropropane	ND		400	290
541-73-1	1,3-Dichlorobenzene	ND		400	310
106-46-7	1,4-Dichlorobenzene	ND		400	340
78-93-3	2-Butanone (MEK)	ND		4000	530
591-78-6	2-Hexanone	ND		2000	500
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2000	840
67-64-1	Acetone	ND		4000	1200
71-43-2	Benzene	ND		400	160
75-25-2	Bromoform	ND		400	100
74-83-9	Bromomethane	ND		400	280
75-15-0	Carbon disulfide	ND		400	76
56-23-5	Carbon tetrachloride	ND		400	110
108-90-7	Chlorobenzene	ND		400	300
124-48-1	Dibromochloromethane	ND		400	130
75-00-3	Chloroethane	ND		400	130
67-66-3	Chloroform	ND		400	140
74-87-3	Chloromethane	ND		400	140
156-59-2	cis-1,2-Dichloroethene	10000	F1	400	320
110-82-7	Cyclohexane	ND		400	72
75-27-4	Bromodichloromethane	ND		400	160
75-71-8	Dichlorodifluoromethane	ND		400	270
100-41-4	Ethylbenzene	ND		400	300
106-93-4	1,2-Dibromoethane	ND		400	290
98-82-8	Isopropylbenzene	ND		400	320
79-20-9	Methyl acetate	ND		1000	520

OW-TS

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1
SDG No.:
Client Sample ID: FD1-050218 | Lab Sample ID: 480-135305-5
Matrix: Water | Lab File ID: P32709.D
Analysis Method: 8260C | Date Collected: 05/02/2018 00:00
Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 14:14
Soil Aliquot Vol: | Dilution Factor: 400
Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		400	64
108-87-2	Methylcyclohexane	ND		400	64
75-09-2	Methylene Chloride	ND		400	180
127-18-4	Tetrachloroethene	ND		400	140
108-88-3	Toluene	ND		400	200
156-60-5	trans-1,2-Dichloroethene	ND		400	360
10061-02-6	trans-1,3-Dichloropropene	ND		400	150
79-01-6	Trichloroethene	230	J	400	180
75-69-4	Trichlorofluoromethane	ND		400	350
75-01-4	Vinyl chloride	1900		400	360
1330-20-7	Xylenes, Total	ND		800	260
10061-01-5	cis-1,3-Dichloropropene	ND		400	140
100-42-5	Styrene	ND		400	290

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

DMK 6/5/18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: SW-32 | Lab Sample ID: 480-135305-7

Matrix: Water | Lab File ID: P32685.D

Analysis Method: 8260C | Date Collected: 05/02/2018 14:20

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 02:09

Soil Aliquot Vol: | Dilution Factor: 20000

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	630000		20000	16000
79-34-5	1,1,2,2-Tetrachloroethane	ND		20000	4200
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20000	6200
79-00-5	1,1,2-Trichloroethane	ND		20000	4600
75-34-3	1,1-Dichloroethane	90000		20000	7600
75-35-4	1,1-Dichloroethene	ND		20000	5800
120-82-1	1,2,4-Trichlorobenzene	ND		20000	8200
96-12-8	1,2-Dibromo-3-Chloropropane	ND		20000	7800
95-50-1	1,2-Dichlorobenzene	ND		20000	16000
107-06-2	1,2-Dichloroethane	ND		20000	4200
78-87-5	1,2-Dichloropropane	ND		20000	14000
541-73-1	1,3-Dichlorobenzene	ND		20000	16000
106-46-7	1,4-Dichlorobenzene	ND		20000	17000
78-93-3	2-Butanone (MEK)	ND		200000	26000
591-78-6	2-Hexanone	ND		100000	25000
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100000	42000
67-64-1	Acetone	ND		200000	60000
71-43-2	Benzene	ND		20000	8200
75-25-2	Bromoform	ND	UJ	20000	5200
74-83-9	Bromomethane	ND		20000	14000
75-15-0	Carbon disulfide	ND		20000	3800
56-23-5	Carbon tetrachloride	ND		20000	5400
108-90-7	Chlorobenzene	ND		20000	15000
124-48-1	Dibromochloromethane	ND		20000	6400
75-00-3	Chloroethane	ND		20000	6400
67-66-3	Chloroform	ND		20000	6800
74-87-3	Chloromethane	ND		20000	7000
156-59-2	cis-1,2-Dichloroethene	ND		20000	16000
110-82-7	Cyclohexane	ND		20000	3600
75-27-4	Bromodichloromethane	ND		20000	7800
75-71-8	Dichlorodifluoromethane	ND		20000	14000
100-41-4	Ethylbenzene	ND		20000	15000
106-93-4	1,2-Dibromoethane	ND		20000	15000
98-82-8	Isopropylbenzene	ND		20000	16000
79-20-9	Methyl acetate	ND		50000	26000

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: SW-32 | Lab Sample ID: 480-135305-7

Matrix: Water | Lab File ID: P32685.D

Analysis Method: 8260C | Date Collected: 05/02/2018 14:20

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 02:09

Soil Aliquot Vol: | Dilution Factor: 20000

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		20000	3200
108-87-2	Methylcyclohexane	ND		20000	3200
75-09-2	Methylene Chloride	ND		20000	8800
127-18-4	Tetrachloroethene	ND		20000	7200
108-88-3	Toluene	ND		20000	10000
156-60-5	trans-1,2-Dichloroethene	ND		20000	18000
10061-02-6	trans-1,3-Dichloropropene	ND		20000	7400
79-01-6	Trichloroethene	ND		20000	9200
75-69-4	Trichlorofluoromethane	ND		20000	18000
75-01-4	Vinyl chloride	ND		20000	18000
1330-20-7	Xylenes, Total	ND		40000	13000
10061-01-5	cis-1,3-Dichloropropene	ND		20000	7200
100-42-5	Styrene	ND		20000	15000

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-135305-1

SDG No.:

Client Sample ID: SW-33 Lab Sample ID: 480-135305-8

Matrix: Water Lab File ID: P32686.D

Analysis Method: 8260C Date Collected: 05/02/2018 14:30

Sample wt/vol: 5(mL) Date Analyzed: 05/10/2018 02:37

Soil Aliquot Vol: Dilution Factor: 10000

Soil Extract Vol.: GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 413509 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	UJ	10000	8200
79-34-5	1,1,2,2-Tetrachloroethane	ND		10000	2100
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10000	3100
79-00-5	1,1,2-Trichloroethane	ND		10000	2300
75-34-3	1,1-Dichloroethane	20000	J	10000	3800
75-35-4	1,1-Dichloroethene	ND	UJ	10000	2900
120-82-1	1,2,4-Trichlorobenzene	ND		10000	4100
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10000	3900
95-50-1	1,2-Dichlorobenzene	ND		10000	7900
107-06-2	1,2-Dichloroethane	ND		10000	2100
78-87-5	1,2-Dichloropropane	ND		10000	7200
541-73-1	1,3-Dichlorobenzene	ND		10000	7800
106-46-7	1,4-Dichlorobenzene	ND		10000	8400
78-93-3	2-Butanone (MEK)	ND		100000	13000
591-78-6	2-Hexanone	ND		50000	12000
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50000	21000
67-64-1	Acetone	ND	F2	100000	30000
71-43-2	Benzene	ND		10000	4100
75-25-2	Bromoform	ND		10000	2600
74-83-9	Bromomethane	ND		10000	6900
75-15-0	Carbon disulfide	ND		10000	1900
56-23-5	Carbon tetrachloride	ND		10000	2700
108-90-7	Chlorobenzene	ND		10000	7500
124-48-1	Dibromochloromethane	ND		10000	3200
75-00-3	Chloroethane	16000	J	10000	3200
67-66-3	Chloroform	ND	UJ	10000	3400
74-87-3	Chloromethane	ND		10000	3500
156-59-2	cis-1,2-Dichloroethene	ND		10000	8100
110-82-7	Cyclohexane	ND		10000	1800
75-27-4	Bromodichloromethane	ND		10000	3900
75-71-8	Dichlorodifluoromethane	ND		10000	6800
100-41-4	Ethylbenzene	ND		10000	7400
106-93-4	1,2-Dibromoethane	ND		10000	7300
98-82-8	Isopropylbenzene	ND		10000	7900
79-20-9	Methyl acetate	ND		25000	13000

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: SW-33 | Lab Sample ID: 480-135305-8

Matrix: Water | Lab File ID: P32686.D

Analysis Method: 8260C | Date Collected: 05/02/2018 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 02:37

Soil Aliquot Vol: | Dilution Factor: 10000

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND	UJ	10000	1600
108-87-2	Methylcyclohexane	ND		10000	1600
75-09-2	Methylene Chloride	ND		10000	4400
127-18-4	Tetrachloroethene	ND		10000	3600
108-88-3	Toluene	ND		10000	5100
156-60-5	trans-1,2-Dichloroethene	ND		10000	9000
10061-02-6	trans-1,3-Dichloropropene	ND		10000	3700
79-01-6	Trichloroethene	ND		10000	4600
75-69-4	Trichlorofluoromethane	ND		10000	8800
75-01-4	Vinyl chloride	ND		10000	9000
1330-20-7	Xylenes, Total	ND		20000	6600
10061-01-5	cis-1,3-Dichloropropene	ND		10000	3600
100-42-5	Styrene	ND		10000	7300

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: SW-37 | Lab Sample ID: 480-135305-9

Matrix: Water | Lab File ID: P32687.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 03:05

Soil Aliquot Vol: | Dilution Factor: 400

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1200		400	330
79-34-5	1,1,2,2-Tetrachloroethane	ND		400	84
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		400	120
79-00-5	1,1,2-Trichloroethane	ND		400	92
75-34-3	1,1-Dichloroethane	7700		400	150
75-35-4	1,1-Dichloroethene	ND		400	120
120-82-1	1,2,4-Trichlorobenzene	ND		400	160
96-12-8	1,2-Dibromo-3-Chloropropane	ND		400	160
95-50-1	1,2-Dichlorobenzene	ND		400	320
107-06-2	1,2-Dichloroethane	ND		400	84
78-87-5	1,2-Dichloropropane	ND		400	290
541-73-1	1,3-Dichlorobenzene	ND		400	310
106-46-7	1,4-Dichlorobenzene	ND		400	340
78-93-3	2-Butanone (MEK)	ND		4000	530
591-78-6	2-Hexanone	ND		2000	500
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2000	840
67-64-1	Acetone	ND		4000	1200
71-43-2	Benzene	ND		400	160
75-25-2	Bromoform	ND	U5	400	100
74-83-9	Bromomethane	ND		400	280
75-15-0	Carbon disulfide	ND		400	76
56-23-5	Carbon tetrachloride	ND		400	110
108-90-7	Chlorobenzene	ND		400	300
124-48-1	Dibromochloromethane	ND		400	130
75-00-3	Chloroethane	ND		400	130
67-66-3	Chloroform	ND		400	140
74-87-3	Chloromethane	ND		400	140
156-59-2	cis-1,2-Dichloroethene	6200		400	320
110-82-7	Cyclohexane	ND		400	72
75-27-4	Bromodichloromethane	ND		400	160
75-71-8	Dichlorodifluoromethane	ND		400	270
100-41-4	Ethylbenzene	ND		400	300
106-93-4	1,2-Dibromoethane	ND		400	290
98-82-8	Isopropylbenzene	ND		400	320
79-20-9	Methyl acetate	ND		1000	520

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1
SDG No.:
Client Sample ID: SW-37 | Lab Sample ID: 480-135305-9
Matrix: Water | Lab File ID: P32687.D
Analysis Method: 8260C | Date Collected: 05/02/2018 15:00
Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 03:05
Soil Aliquot Vol: | Dilution Factor: 400
Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		400	64
108-87-2	Methylcyclohexane	ND		400	64
75-09-2	Methylene Chloride	ND		400	180
127-18-4	Tetrachloroethene	ND		400	140
108-88-3	Toluene	ND		400	200
156-60-5	trans-1,2-Dichloroethene	ND		400	360
10061-02-6	trans-1,3-Dichloropropene	ND		400	150
79-01-6	Trichloroethene	ND		400	180
75-69-4	Trichlorofluoromethane	ND		400	350
75-01-4	Vinyl chloride	2700		400	360
1330-20-7	Xylenes, Total	ND		800	260
10061-01-5	cis-1,3-Dichloropropene	ND		400	140
100-42-5	Styrene	ND		400	290

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-01 | Lab Sample ID: 480-135305-16

Matrix: Water | Lab File ID: P32692.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:57

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 05:22

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	420		20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	82		20	6.2
79-00-5	1,1,2-Trichloroethane	ND		20	4.6
75-34-3	*1,1-Dichloroethane*	3700 ~~3100~~	E D	*20*	*7.6*
75-35-4	1,1-Dichloroethene	160		20	5.8
120-82-1	1,2,4-Trichlorobenzene	ND		20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND		20	7.8
95-50-1	1,2-Dichlorobenzene	ND		20	16
107-06-2	1,2-Dichloroethane	5.7	J	20	4.2
78-87-5	1,2-Dichloropropane	ND		20	14
541-73-1	1,3-Dichlorobenzene	ND		20	16
106-46-7	1,4-Dichlorobenzene	ND		20	17
78-93-3	2-Butanone (MEK)	ND		200	26
591-78-6	2-Hexanone	ND		100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	42
67-64-1	Acetone	ND		200	60
71-43-2	Benzene	ND		20	8.2
75-25-2	Bromoform	ND	UJ	20	5.2
74-83-9	Bromomethane	ND		20	14
75-15-0	Carbon disulfide	ND		20	3.8
56-23-5	Carbon tetrachloride	ND		20	5.4
108-90-7	Chlorobenzene	ND		20	15
124-48-1	Dibromochloromethane	ND		20	6.4
75-00-3	Chloroethane	160		20	6.4
67-66-3	Chloroform	ND		20	6.8
74-87-3	Chloromethane	ND		20	7.0
156-59-2	*cis-1,2-Dichloroethene*	3700 ~~4400~~	E D	*20*	*16*
110-82-7	Cyclohexane	ND		20	3.6
75-27-4	Bromodichloromethane	ND		20	7.8
75-71-8	Dichlorodifluoromethane	ND		20	14
100-41-4	Ethylbenzene	ND		20	15
106-93-4	1,2-Dibromoethane	ND		20	15
98-82-8	Isopropylbenzene	ND		20	16
79-20-9	Methyl acetate	ND		50	26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-01 | Lab Sample ID: 480-135305-16

Matrix: Water | Lab File ID: P32692.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:57

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 05:22

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		20	3.2
108-87-2	Methylcyclohexane	ND		20	3.2
75-09-2	Methylene Chloride	ND		20	8.8
127-18-4	Tetrachloroethene	ND		20	7.2
108-88-3	Toluene	ND		20	10
156-60-5	trans-1,2-Dichloroethene	ND		20	18
10061-02-6	trans-1,3-Dichloropropene	ND		20	7.4
79-01-6	Trichloroethene	780		20	9.2
75-69-4	Trichlorofluoromethane	ND		20	18
75-01-4	Vinyl chloride	1500		20	18
1330-20-7	Xylenes, Total	ND		40	13
10061-01-5	cis-1,3-Dichloropropene	ND		20	7.2
100-42-5	Styrene	ND		20	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-01 DL | Lab Sample ID: 480-135305-16 DL

Matrix: Water | Lab File ID: P32713.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:57

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 16:03

Soil Aliquot Vol: | Dilution Factor: 80

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	390		80	66
79-34-5	1,1,2,2-Tetrachloroethane	ND		80	17
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	34	J	80	25
79-00-5	1,1,2-Trichloroethane	ND		80	18
75-34-3	1,1-Dichloroethane	2700		80	30
75-35-4	1,1-Dichloroethene	160		80	23
120-82-1	1,2,4-Trichlorobenzene	ND		80	33
96-12-8	1,2-Dibromo-3-Chloropropane	ND		80	31
95-50-1	1,2-Dichlorobenzene	ND		80	63
107-06-2	1,2-Dichloroethane	ND		80	17
78-87-5	1,2-Dichloropropane	ND		80	58
541-73-1	1,3-Dichlorobenzene	ND		80	62
106-46-7	1,4-Dichlorobenzene	ND		80	67
78-93-3	2-Butanone (MEK)	ND		800	110
591-78-6	2-Hexanone	ND		400	99
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		400	170
67-64-1	Acetone	ND		800	240
71-43-2	Benzene	ND		80	33
75-25-2	Bromoform	ND		80	21
74-83-9	Bromomethane	ND		80	55
75-15-0	Carbon disulfide	ND		80	15
56-23-5	Carbon tetrachloride	ND		80	22
108-90-7	Chlorobenzene	ND		80	60
124-48-1	Dibromochloromethane	ND		80	26
75-00-3	Chloroethane	130		80	26
67-66-3	Chloroform	ND		80	27
74-87-3	Chloromethane	ND		80	28
156-59-2	cis-1,2-Dichloroethene	3700		80	65
110-82-7	Cyclohexane	ND		80	14
75-27-4	Bromodichloromethane	ND		80	31
75-71-8	Dichlorodifluoromethane	ND		80	54
100-41-4	Ethylbenzene	ND		80	59
106-93-4	1,2-Dibromoethane	ND		80	58
98-82-8	Isopropylbenzene	ND		80	63
79-20-9	Methyl acetate	ND		200	100

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-01 DL | Lab Sample ID: 480-135305-16 DL

Matrix: Water | Lab File ID: P32713.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:57

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 16:03

Soil Aliquot Vol: | Dilution Factor: 80

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		80	13
108-87-2	Methylcyclohexane	ND		80	13
75-09-2	Methylene Chloride	ND		80	35
127-18-4	Tetrachloroethene	ND		80	29
108-88-3	Toluene	ND		80	41
156-60-5	trans-1,2-Dichloroethene	ND		80	72
10061-02-6	trans-1,3-Dichloropropene	ND		80	30
79-01-6	Trichloroethene	650		80	37
75-69-4	Trichlorofluoromethane	ND		80	70
75-01-4	Vinyl chloride	1500		80	72
1330-20-7	Xylenes, Total	ND		160	53
10061-01-5	cis-1,3-Dichloropropene	ND		80	29
100-42-5	Styrene	ND		80	58

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

6/15/18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-02 | Lab Sample ID: 480-135305-19

Matrix: Water | Lab File ID: P32693.D

Analysis Method: 8260C | Date Collected: 05/02/2018 16:15

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 05:49

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
75-34-3	1,1-Dichloroethane	4.6		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND		40	5.3
591-78-6	2-Hexanone	ND		20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	ND		40	12
71-43-2	Benzene	ND		4.0	1.6
75-25-2	Bromoform	ND	UJ	4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
124-48-1	Dibromochloromethane	ND		4.0	1.3
75-00-3	Chloroethane	2.6	J	4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	ND		4.0	3.2
110-82-7	Cyclohexane	ND		4.0	0.72
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7
100-41-4	Ethylbenzene	ND		4.0	3.0
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
98-82-8	Isopropylbenzene	ND		4.0	3.2
79-20-9	Methyl acetate	ND		10	5.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-02 | Lab Sample ID: 480-135305-19

Matrix: Water | Lab File ID: P32693.D

Analysis Method: 8260C | Date Collected: 05/02/2018 16:15

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 05:49

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	7.4		4.0	0.64
108-87-2	Methylcyclohexane	ND		4.0	0.64
75-09-2	Methylene Chloride	ND		4.0	1.8
127-18-4	Tetrachloroethene	ND		4.0	1.4
108-88-3	Toluene	ND		4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride	ND		4.0	3.6
1330-20-7	Xylenes, Total	ND		8.0	2.6
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
100-42-5	Styrene	ND		4.0	2.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-03 | Lab Sample ID: 480-135305-1

Matrix: Water | Lab File ID: P32705.D

Analysis Method: 8260C | Date Collected: 05/02/2018 13:36

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 12:24

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	640		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	140		10	3.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
75-34-3	1,1-Dichloroethane	210		10	3.8
75-35-4	1,1-Dichloroethene	16		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	ND		10	4.1
75-25-2	Bromoform	ND		10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	35		10	8.1
110-82-7	Cyclohexane	ND		10	1.8
75-27-4	Bromodichloromethane	ND		10	3.9
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	ND		10	7.9
79-20-9	Methyl acetate	ND		25	13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-03 | Lab Sample ID: 480-135305-1

Matrix: Water | Lab File ID: P32705.D

Analysis Method: 8260C | Date Collected: 05/02/2018 13:36

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 12:24

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
127-18-4	Tetrachloroethene	5.1	J	10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	37		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	14		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
100-42-5	Styrene	ND		10	7.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-05 | Lab Sample ID: 480-135305-24

Matrix: Water | Lab File ID: P32717.D

Analysis Method: 8260C | Date Collected: 05/02/2018 16:50

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 17:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
110-82-7	Cyclohexane	ND		1.0	0.18
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-05 | Lab Sample ID: 480-135305-24

Matrix: Water | Lab File ID: P32717.D

Analysis Method: 8260C | Date Collected: 05/02/2018 16:50

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 17:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
100-42-5	Styrene	ND		1.0	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	88		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-06 | Lab Sample ID: 480-135305-25

Matrix: Water | Lab File ID: P32718.D

Analysis Method: 8260C | Date Collected: 05/02/2018 17:10

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 18:20

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.0	3.3
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.0	0.84
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2
79-00-5	1,1,2-Trichloroethane	ND		4.0	0.92
75-34-3	1,1-Dichloroethane	ND		4.0	1.5
75-35-4	1,1-Dichloroethene	ND		4.0	1.2
120-82-1	1,2,4-Trichlorobenzene	ND		4.0	1.6
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.0	1.6
95-50-1	1,2-Dichlorobenzene	ND		4.0	3.2
107-06-2	1,2-Dichloroethane	ND		4.0	0.84
78-87-5	1,2-Dichloropropane	ND		4.0	2.9
541-73-1	1,3-Dichlorobenzene	ND		4.0	3.1
106-46-7	1,4-Dichlorobenzene	ND		4.0	3.4
78-93-3	2-Butanone (MEK)	ND		40	5.3
591-78-6	2-Hexanone	ND		20	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		20	8.4
67-64-1	Acetone	ND		40	12
71-43-2	Benzene	ND		4.0	1.6
75-25-2	Bromoform	ND		4.0	1.0
74-83-9	Bromomethane	ND		4.0	2.8
75-15-0	Carbon disulfide	ND		4.0	0.76
56-23-5	Carbon tetrachloride	ND		4.0	1.1
108-90-7	Chlorobenzene	ND		4.0	3.0
124-48-1	Dibromochloromethane	ND		4.0	1.3
75-00-3	Chloroethane	ND		4.0	1.3
67-66-3	Chloroform	ND		4.0	1.4
74-87-3	Chloromethane	ND		4.0	1.4
156-59-2	cis-1,2-Dichloroethene	ND		4.0	3.2
110-82-7	Cyclohexane	ND		4.0	0.72
75-27-4	Bromodichloromethane	ND		4.0	1.6
75-71-8	Dichlorodifluoromethane	ND		4.0	2.7
100-41-4	Ethylbenzene	ND		4.0	3.0
106-93-4	1,2-Dibromoethane	ND		4.0	2.9
98-82-8	Isopropylbenzene	ND		4.0	3.2
79-20-9	Methyl acetate	ND		10	5.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-06 | Lab Sample ID: 480-135305-25

Matrix: Water | Lab File ID: P32718.D

Analysis Method: 8260C | Date Collected: 05/02/2018 17:10

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 18:20

Soil Aliquot Vol: | Dilution Factor: 4

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.0	0.64
108-87-2	Methylcyclohexane	ND		4.0	0.64
75-09-2	Methylene Chloride	ND		4.0	1.8
127-18-4	Tetrachloroethene	ND		4.0	1.4
108-88-3	Toluene	ND		4.0	2.0
156-60-5	trans-1,2-Dichloroethene	ND		4.0	3.6
10061-02-6	trans-1,3-Dichloropropene	ND		4.0	1.5
79-01-6	Trichloroethene	ND		4.0	1.8
75-69-4	Trichlorofluoromethane	ND		4.0	3.5
75-01-4	Vinyl chloride	ND		4.0	3.6
1330-20-7	Xylenes, Total	ND		8.0	2.6
10061-01-5	cis-1,3-Dichloropropene	ND		4.0	1.4
100-42-5	Styrene	ND		4.0	2.9

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
460-00-4	4-Bromofluorobenzene (Surr)	90		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-08 | Lab Sample ID: 480-135305-12

Matrix: Water | Lab File ID: P32711.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 15:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.96	J	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	1.0		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
110-82-7	Cyclohexane	ND		1.0	0.18
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-08 | Lab Sample ID: 480-135305-12

Matrix: Water | Lab File ID: P32711.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 15:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
100-42-5	Styrene	ND		1.0	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		77-120
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1
SDG No.:
Client Sample ID: URS-11 | Lab Sample ID: 480-135305-10
Matrix: Water | Lab File ID: P32688.D
Analysis Method: 8260C | Date Collected: 05/02/2018 15:05
Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 03:32
Soil Aliquot Vol: | Dilution Factor: 1000
Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1000	820
79-34-5	1,1,2,2-Tetrachloroethane	ND		1000	210
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1000	310
79-00-5	1,1,2-Trichloroethane	ND		1000	230
75-34-3	1,1-Dichloroethane	6100		1000	380
75-35-4	1,1-Dichloroethene	ND		1000	290
120-82-1	1,2,4-Trichlorobenzene	ND		1000	410
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1000	390
95-50-1	1,2-Dichlorobenzene	ND		1000	790
107-06-2	1,2-Dichloroethane	ND		1000	210
78-87-5	1,2-Dichloropropane	ND		1000	720
541-73-1	1,3-Dichlorobenzene	ND		1000	780
106-46-7	1,4-Dichlorobenzene	ND		1000	840
78-93-3	2-Butanone (MEK)	ND		10000	1300
591-78-6	2-Hexanone	ND		5000	1200
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5000	2100
67-64-1	Acetone	ND		10000	3000
71-43-2	Benzene	ND		1000	410
75-25-2	Bromoform	ND	UJ	1000	260
74-83-9	Bromomethane	ND		1000	690
75-15-0	Carbon disulfide	ND		1000	190
56-23-5	Carbon tetrachloride	ND		1000	270
108-90-7	Chlorobenzene	ND		1000	750
124-48-1	Dibromochloromethane	ND		1000	320
75-00-3	Chloroethane	22000		1000	320
67-66-3	Chloroform	ND		1000	340
74-87-3	Chloromethane	400	J	1000	350
156-59-2	cis-1,2-Dichloroethene	ND		1000	810
110-82-7	Cyclohexane	ND		1000	180
75-27-4	Bromodichloromethane	ND		1000	390
75-71-8	Dichlorodifluoromethane	ND		1000	680
100-41-4	Ethylbenzene	ND		1000	740
106-93-4	1,2-Dibromoethane	ND		1000	730
98-82-8	Isopropylbenzene	ND		1000	790
79-20-9	Methyl acetate	ND		2500	1300

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-11 | Lab Sample ID: 480-135305-10

Matrix: Water | Lab File ID: P32688.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:05

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 03:32

Soil Aliquot Vol: | Dilution Factor: 1000

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1000	160
108-87-2	Methylcyclohexane	ND		1000	160
75-09-2	Methylene Chloride	ND		1000	440
127-18-4	Tetrachloroethene	ND		1000	360
108-88-3	Toluene	ND		1000	510
156-60-5	trans-1,2-Dichloroethene	ND		1000	900
10061-02-6	trans-1,3-Dichloropropene	ND		1000	370
79-01-6	Trichloroethene	ND		1000	460
75-69-4	Trichlorofluoromethane	ND		1000	880
75-01-4	Vinyl chloride	ND		1000	900
1330-20-7	Xylenes, Total	ND		2000	660
10061-01-5	cis-1,3-Dichloropropene	ND		1000	360
100-42-5	Styrene	ND		1000	730

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
2037-26-5	Toluene-d8 (Surr)	97		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-12 | Lab Sample ID: 480-135305-11

Matrix: Water | Lab File ID: P32689.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:10

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 04:00

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		10	8.2
79-34-5	1,1,2,2-Tetrachloroethane	ND		10	2.1
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	3.1
79-00-5	1,1,2-Trichloroethane	ND		10	2.3
75-34-3	1,1-Dichloroethane	ND		10	3.8
75-35-4	1,1-Dichloroethene	ND		10	2.9
120-82-1	1,2,4-Trichlorobenzene	ND		10	4.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		10	3.9
95-50-1	1,2-Dichlorobenzene	ND		10	7.9
107-06-2	1,2-Dichloroethane	ND		10	2.1
78-87-5	1,2-Dichloropropane	ND		10	7.2
541-73-1	1,3-Dichlorobenzene	ND		10	7.8
106-46-7	1,4-Dichlorobenzene	ND		10	8.4
78-93-3	2-Butanone (MEK)	ND		100	13
591-78-6	2-Hexanone	ND		50	12
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		50	21
67-64-1	Acetone	ND		100	30
71-43-2	Benzene	ND		10	4.1
75-25-2	Bromoform	ND	UJ	10	2.6
74-83-9	Bromomethane	ND		10	6.9
75-15-0	Carbon disulfide	ND		10	1.9
56-23-5	Carbon tetrachloride	ND		10	2.7
108-90-7	Chlorobenzene	ND		10	7.5
124-48-1	Dibromochloromethane	ND		10	3.2
75-00-3	Chloroethane	ND		10	3.2
67-66-3	Chloroform	ND		10	3.4
74-87-3	Chloromethane	ND		10	3.5
156-59-2	cis-1,2-Dichloroethene	ND		10	8.1
110-82-7	Cyclohexane	ND		10	1.8
75-27-4	Bromodichloromethane	ND		10	3.9
75-71-8	Dichlorodifluoromethane	ND		10	6.8
100-41-4	Ethylbenzene	ND		10	7.4
106-93-4	1,2-Dibromoethane	ND		10	7.3
98-82-8	Isopropylbenzene	ND		10	7.9
79-20-9	Methyl acetate	ND		25	13

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-12 | Lab Sample ID: 480-135305-11

Matrix: Water | Lab File ID: P32689.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:10

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 04:00

Soil Aliquot Vol: | Dilution Factor: 10

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		10	1.6
108-87-2	Methylcyclohexane	ND		10	1.6
75-09-2	Methylene Chloride	ND		10	4.4
127-18-4	Tetrachloroethene	ND		10	3.6
108-88-3	Toluene	ND		10	5.1
156-60-5	trans-1,2-Dichloroethene	ND		10	9.0
10061-02-6	trans-1,3-Dichloropropene	ND		10	3.7
79-01-6	Trichloroethene	ND		10	4.6
75-69-4	Trichlorofluoromethane	ND		10	8.8
75-01-4	Vinyl chloride	ND		10	9.0
1330-20-7	Xylenes, Total	ND		20	6.6
10061-01-5	cis-1,3-Dichloropropene	ND		10	3.6
100-42-5	Styrene	ND		10	7.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-13 | Lab Sample ID: 480-135305-26

Matrix: Water | Lab File ID: P32719.D

Analysis Method: 8260C | Date Collected: 05/02/2018 17:20

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 18:48

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
75-34-3	1,1-Dichloroethane	ND		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND		20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	ND		20	6.0
71-43-2	Benzene	ND		2.0	0.82
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	ND		2.0	1.6
110-82-7	Cyclohexane	ND		2.0	0.36
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6
79-20-9	Methyl acetate	ND		5.0	2.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-13 | Lab Sample ID: 480-135305-26

Matrix: Water | Lab File ID: P32719.D

Analysis Method: 8260C | Date Collected: 05/02/2018 17:20

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 18:48

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	0.37	J	2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	ND		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
100-42-5	Styrene	ND		2.0	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-1A 14 | Lab Sample ID: 480-135305-2

Matrix: Water | Lab File ID: P32706.D

Analysis Method: 8260C | Date Collected: 05/02/2018 13:47

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 12:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
110-82-7	Cyclohexane	ND		1.0	0.18
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-1A 14 | Lab Sample ID: 480-135305-2

Matrix: Water | Lab File ID: P32706.D

Analysis Method: 8260C | Date Collected: 05/02/2018 13:47

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 12:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
100-42-5	Styrene	ND		1.0	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		77-120
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-15 | Lab Sample ID: 480-135305-14

Matrix: Water | Lab File ID: P32690.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:40

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 04:27

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2
79-00-5	1,1,2-Trichloroethane	ND		20	4.6
75-34-3	1,1-Dichloroethane	640		20	7.6
75-35-4	1,1-Dichloroethene	31		20	5.8
120-82-1	1,2,4-Trichlorobenzene	ND		20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND		20	7.8
95-50-1	1,2-Dichlorobenzene	ND		20	16
107-06-2	1,2-Dichloroethane	ND		20	4.2
78-87-5	1,2-Dichloropropane	ND		20	14
541-73-1	1,3-Dichlorobenzene	ND		20	16
106-46-7	1,4-Dichlorobenzene	ND		20	17
78-93-3	2-Butanone (MEK)	ND		200	26
591-78-6	2-Hexanone	ND		100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	42
67-64-1	Acetone	ND		200	60
71-43-2	Benzene	ND		20	8.2
75-25-2	Bromoform	ND	U	20	5.2
74-83-9	Bromomethane	ND		20	14
75-15-0	Carbon disulfide	ND		20	3.8
56-23-5	Carbon tetrachloride	ND		20	5.4
108-90-7	Chlorobenzene	ND		20	15
124-48-1	Dibromochloromethane	ND		20	6.4
75-00-3	Chloroethane	120		20	6.4
67-66-3	Chloroform	ND		20	6.8
74-87-3	Chloromethane	ND		20	7.0
156-59-2	*cis-1,2-Dichloroethene*	2300 *2600*	E D	*20*	*16*
110-82-7	Cyclohexane	ND		20	3.6
75-27-4	Bromodichloromethane	ND		20	7.8
75-71-8	Dichlorodifluoromethane	ND		20	14
100-41-4	Ethylbenzene	ND		20	15
106-93-4	1,2-Dibromoethane	ND		20	15
98-82-8	Isopropylbenzene	ND		20	16
79-20-9	Methyl acetate	ND		50	26

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-15 | Lab Sample ID: 480-135305-14

Matrix: Water | Lab File ID: P32690.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:40

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 04:27

Soil Aliquot Vol: | Dilution Factor: 20

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		20	3.2
108-87-2	Methylcyclohexane	ND		20	3.2
75-09-2	Methylene Chloride	ND		20	8.8
127-18-4	Tetrachloroethene	ND		20	7.2
108-88-3	Toluene	ND		20	10
156-60-5	trans-1,2-Dichloroethene	120		20	18
10061-02-6	trans-1,3-Dichloropropene	ND		20	7.4
79-01-6	Trichloroethene	13	J	20	9.2
75-69-4	Trichlorofluoromethane	ND		20	18
75-01-4	*Vinyl chloride*	~~2200~~ 2000	E D	*20*	*18*
1330-20-7	Xylenes, Total	ND		40	13
10061-01-5	cis-1,3-Dichloropropene	ND		20	7.2
100-42-5	Styrene	ND		20	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
460-00-4	4-Bromofluorobenzene (Surr)	89		73-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-15 DL | Lab Sample ID: 480-135305-14 DL

Matrix: Water | Lab File ID: P32712.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:40

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 15:36

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		50	41
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16
79-00-5	1,1,2-Trichloroethane	ND		50	12
75-34-3	1,1-Dichloroethane	570		50	19
75-35-4	1,1-Dichloroethene	25	J	50	15
120-82-1	1,2,4-Trichlorobenzene	ND		50	21
96-12-8	1,2-Dibromo-3-Chloropropane	ND		50	20
95-50-1	1,2-Dichlorobenzene	ND		50	40
107-06-2	1,2-Dichloroethane	ND		50	11
78-87-5	1,2-Dichloropropane	ND		50	36
541-73-1	1,3-Dichlorobenzene	ND		50	39
106-46-7	1,4-Dichlorobenzene	ND		50	42
78-93-3	2-Butanone (MEK)	ND		500	66
591-78-6	2-Hexanone	ND		250	62
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	110
67-64-1	Acetone	ND		500	150
71-43-2	Benzene	ND		50	21
75-25-2	Bromoform	ND		50	13
74-83-9	Bromomethane	ND		50	35
75-15-0	Carbon disulfide	ND		50	9.5
56-23-5	Carbon tetrachloride	ND		50	14
108-90-7	Chlorobenzene	ND		50	38
124-48-1	Dibromochloromethane	ND		50	16
75-00-3	Chloroethane	100		50	16
67-66-3	Chloroform	ND		50	17
74-87-3	Chloromethane	ND		50	18
156-59-2	cis-1,2-Dichloroethene	2300		50	41
110-82-7	Cyclohexane	ND		50	9.0
75-27-4	Bromodichloromethane	ND		50	20
75-71-8	Dichlorodifluoromethane	ND		50	34
100-41-4	Ethylbenzene	ND		50	37
106-93-4	1,2-Dibromoethane	ND		50	37
98-82-8	Isopropylbenzene	ND		50	40
79-20-9	Methyl acetate	ND		130	65

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-15 DL | Lab Sample ID: 480-135305-14 DL

Matrix: Water | Lab File ID: P32712.D

Analysis Method: 8260C | Date Collected: 05/02/2018 15:40

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 15:36

Soil Aliquot Vol: | Dilution Factor: 50

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413540 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		50	8.0
108-87-2	Methylcyclohexane	ND		50	8.0
75-09-2	Methylene Chloride	ND		50	22
127-18-4	Tetrachloroethene	ND		50	18
108-88-3	Toluene	ND		50	26
156-60-5	trans-1,2-Dichloroethene	110		50	45
10061-02-6	trans-1,3-Dichloropropene	ND		50	19
79-01-6	Trichloroethene	ND		50	23
75-69-4	Trichlorofluoromethane	ND		50	44
75-01-4	Vinyl chloride	2000		50	45
1330-20-7	Xylenes, Total	ND		100	33
10061-01-5	cis-1,3-Dichloropropene	ND		50	18
100-42-5	Styrene	ND		50	37

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1
SDG No.:
Client Sample ID: URS-16 | Lab Sample ID: 480-135305-21
Matrix: Water | Lab File ID: P32694.D
Analysis Method: 8260C | Date Collected: 05/02/2018 16:25
Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 06:17
Soil Aliquot Vol: | Dilution Factor: 80
Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)
% Moisture: | Level: (low/med) Low
Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		80	66
79-34-5	1,1,2,2-Tetrachloroethane	ND		80	17
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		80	25
79-00-5	1,1,2-Trichloroethane	ND		80	18
75-34-3	1,1-Dichloroethane	260		80	30
75-35-4	1,1-Dichloroethene	ND		80	23
120-82-1	1,2,4-Trichlorobenzene	ND		80	33
96-12-8	1,2-Dibromo-3-Chloropropane	ND		80	31
95-50-1	1,2-Dichlorobenzene	ND		80	63
107-06-2	1,2-Dichloroethane	ND		80	17
78-87-5	1,2-Dichloropropane	ND		80	58
541-73-1	1,3-Dichlorobenzene	ND		80	62
106-46-7	1,4-Dichlorobenzene	ND		80	67
78-93-3	2-Butanone (MEK)	ND		800	110
591-78-6	2-Hexanone	ND		400	99
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		400	170
67-64-1	Acetone	ND		800	240
71-43-2	Benzene	ND		80	33
75-25-2	Bromoform	ND	U5	80	21
74-83-9	Bromomethane	ND		80	55
75-15-0	Carbon disulfide	ND		80	15
56-23-5	Carbon tetrachloride	ND		80	22
108-90-7	Chlorobenzene	ND		80	60
124-48-1	Dibromochloromethane	ND		80	26
75-00-3	Chloroethane	ND		80	26
67-66-3	Chloroform	ND		80	27
74-87-3	Chloromethane	ND		80	28
156-59-2	cis-1,2-Dichloroethene	1800		80	65
110-82-7	Cyclohexane	ND		80	14
75-27-4	Bromodichloromethane	ND		80	31
75-71-8	Dichlorodifluoromethane	ND		80	54
100-41-4	Ethylbenzene	ND		80	59
106-93-4	1,2-Dibromoethane	ND		80	58
98-82-8	Isopropylbenzene	ND		80	63
79-20-9	Methyl acetate	ND		200	100

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-16 | Lab Sample ID: 480-135305-21

Matrix: Water | Lab File ID: P32694.D

Analysis Method: 8260C | Date Collected: 05/02/2018 16:25

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 06:17

Soil Aliquot Vol: | Dilution Factor: 80

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		80	13
108-87-2	Methylcyclohexane	ND		80	13
75-09-2	Methylene Chloride	ND		80	35
127-18-4	Tetrachloroethene	2600		80	29
108-88-3	Toluene	ND		80	41
156-60-5	trans-1,2-Dichloroethene	ND		80	72
10061-02-6	trans-1,3-Dichloropropene	ND		80	30
79-01-6	Trichloroethene	630		80	37
75-69-4	Trichlorofluoromethane	ND		80	70
75-01-4	Vinyl chloride	95		80	72
1330-20-7	Xylenes, Total	ND		160	53
10061-01-5	cis-1,3-Dichloropropene	ND		80	29
100-42-5	Styrene	ND		80	58

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		77-120
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
2037-26-5	Toluene-d8 (Surr)	94		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-135305-29

Matrix: Water | Lab File ID: P32696.D

Analysis Method: 8260C | Date Collected: 05/02/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 07:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.7	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-25-2	Bromoform	ND	U5	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
110-82-7	Cyclohexane	ND		1.0	0.18
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-135305-1

SDG No.:

Client Sample ID: TRIP BLANK | Lab Sample ID: 480-135305-29

Matrix: Water | Lab File ID: P32696.D

Analysis Method: 8260C | Date Collected: 05/02/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 05/10/2018 07:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 413509 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
100-42-5	Styrene	ND		1.0	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		77-120
460-00-4	4-Bromofluorobenzene (Surr)	91		73-120
2037-26-5	Toluene-d8 (Surr)	95		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-135305-1

SDG No.:

Client Sample ID: SW-32 | Lab Sample ID: 480-135305-7

Matrix: Water | Lab File ID: D49800.D

Analysis Method: 8260C SIM | Date Collected: 05/02/2018 14:20

Sample wt/vol: 10(mL) | Date Analyzed: 05/07/2018 03:03

Soil Aliquot Vol: | Dilution Factor: 250

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 516924 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	8000		100	50

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		71-144
460-00-4	4-Bromofluorobenzene	85		72-133

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-135305-1

SDG No.:

Client Sample ID: SW-33 | Lab Sample ID: 480-135305-8

Matrix: Water | Lab File ID: D49855.D

Analysis Method: 8260C SIM | Date Collected: 05/02/2018 14:30

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2018 04:26

Soil Aliquot Vol: | Dilution Factor: 100

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 517179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	3400	J	40	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		71-144
460-00-4	4-Bromofluorobenzene	92		72-133

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FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-02 | Lab Sample ID: 480-135305-19

Matrix: Water | Lab File ID: D49854.D

Analysis Method: 8260C SIM | Date Collected: 05/02/2018 16:15

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2018 03:59

Soil Aliquot Vol: | Dilution Factor: 100

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 517179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1800		40	20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		71-144
460-00-4	4-Bromofluorobenzene	83		72-133

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-03 | Lab Sample ID: 480-135305-1

Matrix: Water | Lab File ID: D49853.D

Analysis Method: 8260C SIM | Date Collected: 05/02/2018 13:36

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2018 03:32

Soil Aliquot Vol: | Dilution Factor: 2

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 517179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	62		0.80	0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		71-144
460-00-4	4-Bromofluorobenzene	86		72-133

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-05 | Lab Sample ID: 480-135305-24

Matrix: Water | Lab File ID: D49851.D

Analysis Method: 8260C SIM | Date Collected: 05/02/2018 16:50

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2018 02:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 517179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		71-144
460-00-4	4-Bromofluorobenzene	84		72-133

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-08 | Lab Sample ID: 480-135305-12

Matrix: Water | Lab File ID: D49850.D

Analysis Method: 8260C SIM | Date Collected: 05/02/2018 15:15

Sample wt/vol: 10(mL) | Date Analyzed: 05/08/2018 02:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 517179 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		71-144
460-00-4	4-Bromofluorobenzene	84		72-133

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-13 Lab Sample ID: 480-135305-26

Matrix: Water Lab File ID: D49718.D

Analysis Method: 8260C SIM Date Collected: 05/02/2018 17:20

Sample wt/vol: 10(mL) Date Analyzed: 05/05/2018 07:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 516643 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.2		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		71-144
460-00-4	4-Bromofluorobenzene	82		72-133

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-15 Lab Sample ID: 480-135305-14

Matrix: Water Lab File ID: D49852.D

Analysis Method: 8260C SIM Date Collected: 05/02/2018 15:40

Sample wt/vol: 10(mL) Date Analyzed: 05/08/2018 03:03

Soil Aliquot Vol: Dilution Factor: 5

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 517179 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	89		2.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		71-144
460-00-4	4-Bromofluorobenzene	85		72-133

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 480-135305-1

SDG No.:

Client Sample ID: SW-32 Lab Sample ID: 480-135305-7

Matrix: Water Lab File ID: 2018.05.15LLAA_019.d

Analysis Method: 537 (modified) Date Collected: 05/02/2018 14:20

Extraction Method: 3535 Date Extracted: 05/11/2018 13:02

Sample wt/vol: 283.3(mL) Date Analyzed: 05/15/2018 19:24

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 223461 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	98		1.8	0.31
2706-90-3	Perfluoropentanoic acid (PFPeA)	37		1.8	0.43
307-24-4	Perfluorohexanoic acid (PFHxA)	38		1.8	0.51
375-85-9	Perfluoroheptanoic acid (PFHpA)	12		1.8	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	32		1.8	0.75
375-95-1	Perfluorononanoic acid (PFNA)	1.7	J	1.8	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	2.3		1.8	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.97
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.49
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		1.8	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.26
375-73-5	Perfluorobutanesulfonic acid (PFBS)	8.5	~~CJ~~ NJ	1.8	0.18
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.6	~~B~~	1.8	0.15
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.77	J	1.8	0.17
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	36		1.8	0.48
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.28
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		1.8	0.31
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND		18	2.7
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND		18	1.7
27619-97-2	6:2FTS	~~2.9~~ ND	~~J B~~	18	~~1.8~~ 18
39108-34-4	8:2FTS	ND		18	1.8

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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 480-135305-1

SDG No.:

Client Sample ID: SW-33 Lab Sample ID: 480-135305-8

Matrix: Water Lab File ID: 2018.05.15LLAA_020.d

Analysis Method: 537 (modified) Date Collected: 05/02/2018 14:30

Extraction Method: 3535 Date Extracted: 05/11/2018 13:02

Sample wt/vol: 285.2(mL) Date Analyzed: 05/15/2018 19:32

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 223461 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	65		1.8	0.31
2706-90-3	Perfluoropentanoic acid (PFPeA)	60		1.8	0.43
307-24-4	Perfluorohexanoic acid (PFHxA)	74		1.8	0.51
375-85-9	Perfluoroheptanoic acid (PFHpA)	19		1.8	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	59		1.8	0.75
375-95-1	Perfluorononanoic acid (PFNA)	2.8		1.8	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	1.2	J	1.8	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.96
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.48
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		1.8	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.25
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.18
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	5.0	B	1.8	0.15
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.81	J	1.8	0.17
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	59		1.8	0.47
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.28
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		1.8	0.31
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND		18	2.7
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND		18	1.7
27619-97-2	6:2FTS	~~4.0~~ ND	~~J~~ B	18	~~1.8~~ 18
39108-34-4	8:2FTS	ND		18	1.8

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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-02 | Lab Sample ID: 480-135305-19

Matrix: Water | Lab File ID: 2018.05.15LLAA_024.d

Analysis Method: 537 (modified) | Date Collected: 05/02/2018 16:15

Extraction Method: 3535 | Date Extracted: 05/11/2018 13:02

Sample wt/vol: 292.4(mL) | Date Analyzed: 05/15/2018 20:03

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 223461 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	15		1.7	0.30
2706-90-3	Perfluoropentanoic acid (PFPeA)	8.9		1.7	0.42
307-24-4	Perfluorohexanoic acid (PFHxA)	7.0		1.7	0.50
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.5		1.7	0.21
335-67-1	Perfluorooctanoic acid (PFOA)	4.8		1.7	0.73
375-95-1	Perfluorononanoic acid (PFNA)	0.44	J	1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.94
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.47
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		1.7	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.25
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.3		1.7	0.17
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	~~1.0~~ ND	~~J B~~	1.7	~~0.15~~ 1.7
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	7.5		1.7	0.46
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		1.7	0.30
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND		17	2.7
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND		17	1.6
27619-97-2	6:2FTS	~~3.9~~ ND	~~J B~~	17	~~1.7~~ 17
39108-34-4	8:2FTS	ND		17	1.7

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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-03 | Lab Sample ID: 480-135305-1

Matrix: Water | Lab File ID: 2018.05.15LLAA_018.d

Analysis Method: 537 (modified) | Date Collected: 05/02/2018 13:36

Extraction Method: 3535 | Date Extracted: 05/11/2018 13:02

Sample wt/vol: 227.7(mL) | Date Analyzed: 05/15/2018 19:16

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 223461 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	8.9		2.2	0.38
2706-90-3	Perfluoropentanoic acid (PFPeA)	9.2		2.2	0.54
307-24-4	Perfluorohexanoic acid (PFHxA)	9.4		2.2	0.64
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.9		2.2	0.27
335-67-1	Perfluorooctanoic acid (PFOA)	16		2.2	0.93
375-95-1	Perfluorononanoic acid (PFNA)	2.2		2.2	0.30
335-76-2	Perfluorodecanoic acid (PFDA)	3.4		2.2	0.34
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.2	1.2
307-55-1	Perfluorododecanoic acid (PFDoA)	1.7	J	2.2	0.60
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.2	1.4
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.2	0.32
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.96	J	2.2	0.22
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.4	~~J~~	2.2	0.19
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.64	J	2.2	0.21
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	57		2.2	0.59
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.2	0.35
754-91-6	Perfluorooctane Sulfonamide (FOSA)	0.43	J	2.2	0.38
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND		22	3.4
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND		22	2.1
27619-97-2	6:2FTS	~~4.5~~ ND	~~J~~	22	~~2.2~~ 22
39108-34-4	8:2FTS	ND		22	2.2

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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-05 Lab Sample ID: 480-135305-24

Matrix: Water Lab File ID: 2018.05.15LLAA_027.d

Analysis Method: 537 (modified) Date Collected: 05/02/2018 16:50

Extraction Method: 3535 Date Extracted: 05/11/2018 13:02

Sample wt/vol: 297.5(mL) Date Analyzed: 05/15/2018 20:27

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 223461 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	64		1.7	0.29
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.2		1.7	0.41
307-24-4	Perfluorohexanoic acid (PFHxA)	2.5		1.7	0.49
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.6	J	1.7	0.21
335-67-1	Perfluorooctanoic acid (PFOA)	2.2		1.7	0.71
375-95-1	Perfluorononanoic acid (PFNA)	0.63	J	1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.26
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.92
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.46
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		1.7	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.24
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.4	J	1.7	0.17
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	~~0.37~~ ND	~~J B~~	1.7	~~0.14~~ 1.7
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	13		1.7	0.45
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		1.7	0.29
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND		17	2.6
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND		17	1.6
27619-97-2	6:2FTS	~~2.0~~ ND	~~J B~~	17	~~1.7~~ 17
39108-34-4	8:2FTS	ND		17	1.7

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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-08 | Lab Sample ID: 480-135305-12

Matrix: Water | Lab File ID: 2018.05.15LLAA_021.d

Analysis Method: 537 (modified) | Date Collected: 05/02/2018 15:15

Extraction Method: 3535 | Date Extracted: 05/11/2018 13:02

Sample wt/vol: 241.3(mL) | Date Analyzed: 05/15/2018 19:40

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 223461 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	19		2.1	0.36
2706-90-3	Perfluoropentanoic acid (PFPeA)	26		2.1	0.51
307-24-4	Perfluorohexanoic acid (PFHxA)	26		2.1	0.60
375-85-9	Perfluoroheptanoic acid (PFHpA)	11		2.1	0.26
335-67-1	Perfluorooctanoic acid (PFOA)	26		2.1	0.88
375-95-1	Perfluorononanoic acid (PFNA)	2.9		2.1	0.28
335-76-2	Perfluorodecanoic acid (PFDA)	5.6		2.1	0.32
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.1	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.1	0.57
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.1	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.1	0.30
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.2	J	2.1	0.21
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.8	~~B~~	2.1	0.18
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.0	J	2.1	0.20
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	66		2.1	0.56
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.1	0.33
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		2.1	0.36
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND		21	3.2
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND		21	2.0
27619-97-2	6:2FTS	~~2.6~~ ND	~~J B~~	21	~~2.1~~ 21
39108-34-4	8:2FTS	ND		21	2.1

dwk 6/6/18

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-09 | Lab Sample ID: 480-135305-13

Matrix: Water | Lab File ID: 2018.05.15LLAA_022.d

Analysis Method: 537 (modified) | Date Collected: 05/02/2018 15:20

Extraction Method: 3535 | Date Extracted: 05/11/2018 13:02

Sample wt/vol: 225(mL) | Date Analyzed: 05/15/2018 19:48

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 223461 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	7.7		2.2	0.39
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.1	J	2.2	0.54
307-24-4	Perfluorohexanoic acid (PFHxA)	4.8		2.2	0.64
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.3		2.2	0.28
335-67-1	Perfluorooctanoic acid (PFOA)	5.1		2.2	0.94
375-95-1	Perfluorononanoic acid (PFNA)	0.83	J	2.2	0.30
335-76-2	Perfluorodecanoic acid (PFDA)	1.4	J	2.2	0.34
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.2	1.2
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.2	0.61
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.2	1.4
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.2	0.32
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.4	J	2.2	0.22
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.0	~~B~~	2.2	0.19
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.1	J	2.2	0.21
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	190		2.2	0.60
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.2	0.36
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		2.2	0.39
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND		22	3.4
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND		22	2.1
27619-97-2	6:2FTS	~~4.3~~ ND	~~J B~~	22	~~2.2~~ 22
39108-34-4	8:2FTS	ND		22	2.2

6/6/18

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-13 | Lab Sample ID: 480-135305-26

Matrix: Water | Lab File ID: 2018.05.15LLAA_028.d

Analysis Method: 537 (modified) | Date Collected: 05/02/2018 17:20

Extraction Method: 3535 | Date Extracted: 05/11/2018 13:02

Sample wt/vol: 252.3(mL) | Date Analyzed: 05/15/2018 20:34

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 223461 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	65		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	130		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	120		2.0	0.57
375-85-9	Perfluoroheptanoic acid (PFHpA)	71		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	110		2.0	0.84
375-95-1	Perfluorononanoic acid (PFNA)	36		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	11		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.6	J	2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	1.2	J	2.0	0.54
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.7		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	9.3	~~B~~	2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	2.0		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	51		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND		20	3.1
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND		20	1.9
27619-97-2	6:2FTS	~~2.4~~ ND	~~J B~~	20	~~2.0~~ 20
39108-34-4	8:2FTS	ND		20	2.0

6/6/18

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 480-135305-1

SDG No.:

Client Sample ID: URS-15 | Lab Sample ID: 480-135305-14

Matrix: Water | Lab File ID: 2018.05.15LLAA_023.d

Analysis Method: 537 (modified) | Date Collected: 05/02/2018 15:40

Extraction Method: 3535 | Date Extracted: 05/11/2018 13:02

Sample wt/vol: 248.1(mL) | Date Analyzed: 05/15/2018 19:55

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 223461 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	34		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	49		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	55		2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	18		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	34		2.0	0.86
375-95-1	Perfluorononanoic acid (PFNA)	2.1		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.70	J	2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	0.62	J	2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	4.6	~~B~~	2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.95	J	2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	46		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND		20	3.1
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND		20	1.9
27619-97-2	6:2FTS	~~2.9~~ ND	~~J B~~	20	~~2.0~~ 20
39108-34-4	8:2FTS	ND		20	2.0

6/6/18

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 480-135305-1

SDG No.:

Client Sample ID: EB-050218 | Lab Sample ID: 480-135305-27

Matrix: Water | Lab File ID: 2018.05.15LLAA_029.d

Analysis Method: 537 (modified) | Date Collected: 05/02/2018 16:45

Extraction Method: 3535 | Date Extracted: 05/11/2018 13:02

Sample wt/vol: 290.6(mL) | Date Analyzed: 05/15/2018 20:42

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 223461 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		1.7	0.30
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.7	0.42
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.7	0.50
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.22
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.7	0.73
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.95
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.47
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		1.7	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.25
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.17
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.21	J B	1.7	0.15
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.16
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.46
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.28
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		1.7	0.30
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND		17	2.7
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND		17	1.6
27619-97-2	6:2FTS	1.7	J B	17	1.7
39108-34-4	8:2FTS	ND		17	1.7

6/6/18

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 480-135305-1

SDG No.:

Client Sample ID: FB-050218 | Lab Sample ID: 480-135305-28

Matrix: Water | Lab File ID: 2018.05.15LLAA_030.d

Analysis Method: 537 (modified) | Date Collected: 05/02/2018 16:50

Extraction Method: 3535 | Date Extracted: 05/11/2018 13:02

Sample wt/vol: 276.5(mL) | Date Analyzed: 05/15/2018 20:50

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 223461 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		1.8	0.32
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	0.44
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	0.52
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	0.77
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.28
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.99
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.50
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		1.8	1.2
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.26
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.18
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.24	J B	1.8	0.15
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.17
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.49
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		1.8	0.32
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND		18	2.8
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND		18	1.7
27619-97-2	6:2FTS	2.1	J B	18	1.8
39108-34-4	8:2FTS	ND		18	1.8

6/6/18

ATTACHMENT B

SUPPORT DOCUMENTATION

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

480-135305 COC

Client Information	Sampler: K. McGovern/D McMillan	Lab PM: Johnson, Orlette S	COC No: 480-111899-25960.1
Client Contact: Mr. George Kisluk	Phone: 716 923 1327	E-Mail: orlette.johnson@testamericainc.com	Page: Page 1 of 3
Company: URS Corporation			Job #:
Address: 257 W. Genesee Street	Due Date Requested:		
City: Buffalo	TAT Requested (days):		
State, Zip: NY, 14202			
Phone:	PO #: CallOut ID120539		
Email: george.kisluk@aecom.com	WO #:		
Project Name: Stuart-Oliver-Holtz #828079	Project #: 48005134		
Site:	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	PFC_IDA - (MOD) PFAS, Standard List	8260C_SIM - (MOD) 1,4-dioxane only	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A		
URS-03 -	5-2-18	1336	G	Water	N	2	X	X	X	7	
URS-1A -	5-2-18	1347		Water			X			3	
OW-5S -	5-2-18	1355		Water			X			3	
B1/PZ-3 -		1400		Water			X			3	
~~URS-04~~ EQ1-050218		—		Water			X			3	OW-7S
OW-7S -		1410		Water			X			3	
SW-32 -		1420		Water			X	X	X	14-7	1x250mL + 11x40mL VOA
SW-33 -		1430		Water			X	X	X	7	
SW-37 -		1500		Water			X			3	
URS-11 -		1505		Water			X			3	
URS-12 -		1510		Water			X			3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		5/2/18 1347			5/2/18 14-7	TTAB
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:

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05/21/2018

S,O,S #1

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

Client Information	Sampler: K. McLaren/D. McDaniels	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-111899-25960.2
Client Contact: Mr. George Kisluk	Phone: 716-923-1321	E-Mail: orlette.johnson@testamericainc.com		Page: Page 2 of 3
Company: URS Corporation		Analysis Requested		Job #:
Address: 257 W. Genesee Street	Due Date Requested:			Preservation Codes: A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
City: Buffalo	TAT Requested (days):			
State, Zip: NY, 14202	PO #: CallOut ID120539			
Phone:	WO #:			Other:
Email: george.kisluk@aecom.com	Project #: 48005134			
Project Name: Stuart-Oliver-Holtz #828079	SSOW#:			
Site:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, Oil, Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list CL M04.2	PFC_IDA - (MOD) PFAS, Standard List	8260C_SIM - (MOD) 1,4-dioxane only	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A		
URS-08	5-2-18	1515	G	Water			X	X	X	7	
URS-09		1520		Water			X	X	X	7	
URS-15		1540		Water			X	X	X	7	
OW-6S		1550		Water			X			3	
URS-01		1557		Water			X			3	
B4/PZ-01		1605		Water			X			3	
OW-04S		1610		Water			X			3	
URS-02		1615		Water			X	X	X	7	
MW-05		1620		Water			X			3	
URS-16		1625		Water			X			3	
~~OW-3S~~ OW-3S		1630		Water			X			3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	5/2/18 19:17			5/3/18 1947	STAT
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No:
Cooler Temperature(s) °C and Other Remarks: 5.0, 5.3 #1

Ver: 06/04/2018

TestAmerica Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Mr George Kisluk	Phone: 716 923-1321	Johnson Orlette S E Mail: orlette.johnson@testamericainc.com		480-111899-25960 6 Page: Page 6 of 6 3rd
Company: URS Corporation				Job #
Address: 257 W Genesee Street	Due Date Requested:			
City: Buffalo	TAT Requested (days):			
State, Zip: NY, 14202				
Phone:	PO #: CallOut ID120539			
Email: george.kisluk@aecom.com	WO #:			
Project Name: Stuart-Oliver-Holtz #828075	Project #: 48005134			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Soil, Oil, Tissue, Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	PFC_IDA - (MOD) PFAS Standard List	8260C_SIM - (MOD) 1,4-dioxane only	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	A		
FD2-050218	5-2-18		G	Water	N	N	X			3	QW-65
URS-05		1650		Water			X	X	X	7	
URS-06		1710		Water			X			3	
URS-13		1720		Water			X	X	X	7	
EB-050218	5-2-18	1695	G	Water				X		1	
FB-050218	5-2-18	1650	G	Water				X		1	
TRIP BLANK		—	—	Water	N	N	X			3	
				Water							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		5/4/18 1017			5/3/18 1547	TAB
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No:

Cooler Temperature(s)°C and Other Remarks: 5.0, 5.3 #1

Ver: 08/04/2016

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05/21/2018

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Johnson, Orlette S	Carrier Tracking No(s)	COC No: 480-41945 1
Client Contact: Shipping/Receiving	Phone	E-Mail: orlette.johnson@testamericainc.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): NELAP - New York		Job #: 480-135305-1
Address: 880 Riverside Parkway,	Due Date Requested: 5/14/2018			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email	WO #			
Project Name: Stuart-Oliver-Holtz #828079	Project #: 48005134			
Site	SSOW#			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3536_PFC PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
URS-03 (480-135305-1)	5/2/18	13:36 Eastern		Water			X	1	
SW-32 (480-135305-7)	5/2/18	14:20 Eastern		Water			X	1	
SW-33 (480-135305-8)	5/2/18	14:30 Eastern		Water			X	1	
URS-08 (480-135305-12)	5/2/18	13:15 Eastern		Water			X	1	
URS-09 (480-135305-13)	5/2/18	15:20 Eastern		Water			X	1	
URS-15 (480-135305-14)	5/2/18	15:40 Eastern		Water			X	1	
URS-02 (480-135305-19)	5/2/18	16:15 Eastern		Water			X	1	
URS-05 (480-135305-24)	5/2/18	16:50 Eastern		Water			X	1	
URS-13 (480-135305-26)	5/2/18	17:20 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	5/3/18 1530	[illegible]	[signature]	5/4/18 950	TA Sac
2						
3						

Custody Seals Intact: | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.1c

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05/21/2018

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

Client Information (Sub Contract Lab)	Sampler	Lab PM: Johnson, Orlette S	Carrier Tracking No(s)	COC No: 480-41945 2
Client Contact: Shipping/Receiving	Phone	E-Mail: orlette.johnson@testamericainc.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-135305-1
Address: 880 Riverside Parkway,	Due Date Requested: 5/14/2018			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #			
Email:	WO #			
Project Name: Stuart-Oliver-Holtz #828079	Project #: 48005134			
Site:	SSOW#			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA3535_PFC PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X		X	
EB-050218 (480-135305-27)	5/2/18	16:45 Eastern		Water			X	1	
FB-050218 (480-135305-28)	5/2/18	16:50 Eastern		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) — Primary Deliverable Rank: 1	Special Instructions/QC Requirements:

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	5/3/18 1530	TAL	[signature]	5/4/18 936	TAL-Sac
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 2.1c

Ver: 09/20/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-41950.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: orlette.johnson@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-135305-1
Address: 777 New Durham Road, ,	Due Date Requested: 5/14/2018			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Stuart-Oliver-Holtz #828079	Project #: 48005134			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C_BIM/8260C (MOD) 1,4-dioxane only	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
URS-03 (480-135305-1)	5/2/18	13:38 Eastern		Water			X	3	
SW-32 (480-135305-7)	5/2/18	14:20 Eastern		Water			X	3	
SW-33 (480-135305-8)	5/2/18	14:30 Eastern		Water			X	3	
SW-33 (480-135305-8MS)	5/2/18	14:30 Eastern	MS	Water			X	2	ms/msd shared volume
SW-33 (480-135305-8MSD)	5/2/18	14:30 Eastern	MSD	Water			X	2	ms/msd shared volume
URS-08 (480-135305-12)	5/2/18	13:15 Eastern		Water			X	3	
URS-02 (480-135305-19)	5/2/18	16:15 Eastern		Water			X	3	
URS-05 (480-135305-24)	5/2/18	16:50 Eastern		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 1

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 5/3/18 1615	Company:	Received by: via FedEx	Date/Time: 5/4/18 0950	Company: TAL		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: ☑ Yes ☐ No | Custody Seal No.: 009934

Cooler Temperature(s) °C and Other Remarks: 4.7°C IR11

Job Narrative
480-135305-1

Revision 1
Per client, the data package was revised to report 'ND' value for all PFC nondetects.

Receipt
The samples were received on 5/2/2018 7:47 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.0° C and 5.3° C.

Receipt Exceptions
The Vials for Sample Point URS-09 were not delivered.

GC/MS VOA
Method(s) 8260C SIM: The following sample was diluted to bring the concentration of target analytes within the calibration range: SW-32 (480-135305-7). Elevated reporting limits (RLs) are provided.

Method(s) 8260C SIM: The following samples were diluted to bring the concentration of target analytes within the calibration range: URS-03 (480-135305-1), SW-33 (480-135305-8), URS-15 (480-135305-14) and URS-02 (480-135305-19). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: SW-32 (480-135305-7), URS-11 (480-135305-10), URS-15 (480-135305-14), OW-6S (480-135305-15), URS-01 (480-135305-16) and URS-16 (480-135305-21). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: SW-33 (480-135305-8), SW-33 (480-135305-8[MS]), SW-33 (480-135305-8[MSD]), SW-37 (480-135305-9), URS-12 (480-135305-11) and URS-02 (480-135305-19). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: SW-33 (480-135305-8).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: URS-03 (480-135305-1), FD1-050218 (480-135305-5), OW-7S (480-135305-6), URS-15 (480-135305-14), URS-01 (480-135305-16), MW-05 (480-135305-20), OW-3S (480-135305-22), (480-135305-B-5 MS) and (480-135305-B-5 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: URS-06 (480-135305-25) and URS-13 (480-135305-26). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-413745 recovered above the upper control limit for 2-Hexanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: OW-04S (480-135305-18) and FD2-050218 (480-135305-23).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: OW-04S (480-135305-18) and FD2-050218 (480-135305-23). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS
Method(s) 537 (modified): Isotope Dilution Analyte (IDA) recoveries were significantly above the method recommended limit for several analytes in the following samples: URS-03 (480-135305-1), SW-32 (480-135305-7), SW-33 (480-135305-8), URS-08 (480-135305-12), URS-02 (480-135305-19) and URS-05 (480-135305-24). These samples were re-analyzed at dilution with improved IDA recoveries indicating possible matrix affect; however, the target analyte response did not differ from the original analysis. Therefore, results were reported from the original analysis. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method(s) 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following samples is below the method recommended limit for 13C4 PFBA: SW-32 (480-135305-7) and URS-05 (480-135305-24). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the samples.

Method(s) 537 (modified): Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit for M2-6:2FTS and M2-8:2FTS the following samples: URS-09 (480-135305-13) and URS-15 (480-135305-14). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method(s) 537 (modified): Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit for several analytes in the following sample: URS-13 (480-135305-26). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method(s) 537 (modified): The following sample has chromatographic interferences that could adversely impact the identification and quantitation of Perfluorobutanesulfonic acid (PFBS): SW-32 (480-135305-7) These interferences could cause false positive results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-222744.

Method(s) 3535: The following samples URS-08 (480-135305-12) and URS-02 (480-135305-19) in preparation batch 320-222744 were observed to be cloudy after being brought to final volume.

Method(s) 3535: The following samples SW-32 (480-135305-7) and SW-33 (480-135305-8) in preparation batch 320-222744 were observed to be an orange color after being brought to final volume.

Method(s) 3535: The following samples URS-09 (480-135305-13) and URS-15 (480-135305-14) in preparation batch 320-222744 were observed to be a light yellow color after being brought to final volume.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-135305-1

SDG No.:

Lab File ID: P32675.D BFB Injection Date: 05/09/2018

Instrument ID: HP5973P BFB Injection Time: 21:08

Analysis Batch No.: 413509

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.5	
75	30.0 - 60.0 % of mass 95	58.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.5	
173	Less than 2.0 % of mass 174	0.9	(1.2) 1
174	50.0 - 120.00 % of mass 95	76.5	
175	5.0 - 9.0 % of mass 174	4.0	(5.2) 1
176	95.0 - 101.0 % of mass 174	76.0	(99.2) 1
177	5.0 - 9.0 % of mass 176	4.4	(5.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-413509/3	P32676.D	05/09/2018	21:37
	LCS 480-413509/5	P32678.D	05/09/2018	22:31
	MB 480-413509/7	P32680.D	05/09/2018	23:34
SW-32	480-135305-7	P32685.D	05/10/2018	02:09
SW-33	480-135305-8	P32686.D	05/10/2018	02:37
SW-37	480-135305-9	P32687.D	05/10/2018	03:05
URS-11	480-135305-10	P32688.D	05/10/2018	03:32
URS-12	480-135305-11	P32689.D	05/10/2018	04:00
URS-15	480-135305-14	P32690.D	05/10/2018	04:27
OW-6S	480-135305-15	P32691.D	05/10/2018	04:55
URS-07	480-135305-16	P32692.D	05/10/2018	05:22
URS-02	480-135305-19	P32693.D	05/10/2018	05:49
URS-16	480-135305-21	P32694.D	05/10/2018	06:17
TRIP BLANK	480-135305-29	P32696.D	05/10/2018	07:12
SW-33 MS	480-135305-8 MS	P32697.D	05/10/2018	07:40
SW-33 MSD	480-135305-8 MSD	P32698.D	05/10/2018	08:07

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-135305-1

SDG No.:

Lab Sample ID: CCVIS 480-413509/3 Calibration Date: 05/09/2018 21:37

Instrument ID: HP5973P Calib Start Date: 04/23/2018 22:24

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 04/24/2018 01:09

Lab File ID: P32676.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	1.634	1.728	0.1000	26.4	25.0	5.7	20.0
1,2-Dichloropropane	Ave	1.687	1.515	0.1000	22.5	25.0	-10.2	20.0
1,4-Dioxane	Ave	0.0086	0.0088		511	500	2.2	50.0
Dibromomethane	Ave	1.205	1.011	0.1000	21.0	25.0	-16.1	20.0
Bromodichloromethane	Ave	2.404	1.996	0.2000	20.8	25.0	-17.0	20.0
2-Chloroethyl vinyl ether	Ave	1.024	0.9309		22.7	25.0	-9.0	20.0
cis-1,3-Dichloropropene	Ave	2.649	2.389	0.2000	22.5	25.0	-9.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.107	1.136	0.1000	128	125	2.6	20.0
Toluene	Ave	1.881	1.792	0.4000	23.8	25.0	-4.7	20.0
Ethyl methacrylate	Ave	0.9472	0.8951		23.6	25.0	-5.5	20.0
trans-1,3-Dichloropropene	Ave	1.214	1.187	0.1000	24.4	25.0	-2.3	20.0
1,1,2-Trichloroethane	Ave	0.5978	0.5261	0.1000	22.0	25.0	-12.0	20.0
Tetrachloroethene	Ave	0.6994	0.6551	0.2000	23.4	25.0	-6.3	20.0
2-Hexanone	Ave	0.8158	0.8284	0.1000	127	125	1.5	20.0
1,3-Dichloropropane	Ave	1.250	1.187		23.7	25.0	-5.0	20.0
Dibromochloromethane	Ave	0.7449	0.7090	0.1000	23.8	25.0	-4.8	20.0
1,2-Dibromoethane	Ave	0.7054	0.6184		21.9	25.0	-12.3	20.0
Chlorobenzene	Ave	2.157	1.968	0.5000	22.8	25.0	-8.8	20.0
Ethylbenzene	Ave	3.495	3.276	0.1000	23.4	25.0	-6.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.7579	0.6975		23.0	25.0	-8.0	20.0
m,p-Xylene	Ave	1.232	1.210	0.1000	24.6	25.0	-1.7	20.0
o-Xylene	Ave	1.199	1.127	0.3000	23.5	25.0	-6.0	20.0
Styrene	Ave	2.089	1.957	0.3000	23.4	25.0	-6.4	20.0
Bromoform	Ave	0.5164	0.4088	0.1000	19.8	25.0	-20.8	50.0
Isopropylbenzene	Ave	3.228	3.312	0.1000	25.6	25.0	2.6	20.0
1,1,2,2-Tetrachloroethane	Ave	1.049	0.9803	0.3000	23.4	25.0	-6.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4077	0.3113		19.1	25.0	-23.6	50.0
N-Propylbenzene	Ave	4.130	4.125		25.0	25.0	-0.1	20.0
Bromobenzene	Ave	0.9202	0.8685		23.6	25.0	-5.6	20.0
1,2,3-Trichloropropane	Ave	0.3276	0.2969		22.7	25.0	-9.4	20.0
1,3,5-Trimethylbenzene	Ave	2.715	2.750		25.3	25.0	1.3	20.0
2-Chlorotoluene	Ave	0.8112	0.7880		24.3	25.0	-2.9	20.0
4-Chlorotoluene	Ave	0.8848	0.8309		23.5	25.0	-6.1	20.0
tert-Butylbenzene	Ave	0.5303	0.5448		25.7	25.0	2.7	20.0
1,2,4-Trimethylbenzene	Ave	2.869	2.913		25.4	25.0	1.5	20.0
sec-Butylbenzene	Ave	2.848	3.066		26.9	25.0	7.6	20.0
4-Isopropyltoluene	Ave	2.616	2.727		26.1	25.0	4.3	20.0
1,3-Dichlorobenzene	Ave	1.754	1.617	0.6000	23.0	25.0	-7.8	20.0
1,4-Dichlorobenzene	Ave	1.793	1.698	0.5000	23.7	25.0	-5.3	20.0
n-Butylbenzene	Ave	2.298	2.424		26.4	25.0	5.5	20.0
1,2-Dichlorobenzene	Ave	1.670	1.607	0.4000	24.1	25.0	-3.8	20.0

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-135305-1

SDG No.:

Lab File ID: P32723.D BFB Injection Date: 05/10/2018

Instrument ID: HP5973P BFB Injection Time: 20:41

Analysis Batch No.: 413745

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	29.6	
75	30.0 - 60.0 % of mass 95	53.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	8.0	
173	Less than 2.0 % of mass 174	0.2	(0.3) 1
174	50.0 - 120.00 % of mass 95	68.2	
175	5.0 - 9.0 % of mass 174	5.7	(8.4) 1
176	95.0 - 101.0 % of mass 174	65.2	(95.5) 1
177	5.0 - 9.0 % of mass 176	4.9	(7.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-413745/3	P32724.D	05/10/2018	21:13
	LCS 480-413745/5	P32726.D	05/10/2018	22:08
	MB 480-413745/7	P32728.D	05/10/2018	23:03
OW-04S	480-135305-18	P32729.D	05/10/2018	23:55
FD2-050218	480-135305-23	P32730.D	05/11/2018	00:22

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-135305-1

SDG No.:

Lab Sample ID: CCVIS 480-413745/3 Calibration Date: 05/10/2018 21:13

Instrument ID: HP5973P Calib Start Date: 04/23/2018 22:24

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 04/24/2018 01:09

Lab File ID: P32724.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	1.634	1.853	0.1000	28.4	25.0	13.4	20.0
1,2-Dichloropropane	Ave	1.687	1.687	0.1000	25.0	25.0	0.0	20.0
1,4-Dioxane	Ave	0.0086	0.0100		578	500	15.5	50.0
Dibromomethane	Ave	1.205	1.112	0.1000	23.1	25.0	-7.8	20.0
Bromodichloromethane	Ave	2.404	2.212	0.2000	23.0	25.0	-8.0	20.0
2-Chloroethyl vinyl ether	Ave	1.024	0.9600		23.4	25.0	-6.2	20.0
cis-1,3-Dichloropropene	Ave	2.649	2.537	0.2000	23.9	25.0	-4.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.107	1.313	0.1000	148	125	18.6	20.0
Toluene	Ave	1.881	2.052	0.4000	27.3	25.0	9.1	20.0
Ethyl methacrylate	Ave	0.9472	0.999		26.4	25.0	5.4	20.0
trans-1,3-Dichloropropene	Ave	1.214	1.346	0.1000	27.7	25.0	10.9	20.0
1,1,2-Trichloroethane	Ave	0.5978	0.5981	0.1000	25.0	25.0	0.0	20.0
Tetrachloroethene	Ave	0.6994	0.7302	0.2000	26.1	25.0	4.4	20.0
2-Hexanone	Ave	0.8158	0.997	0.1000	153	125	22.2*	20.0
1,3-Dichloropropane	Ave	1.250	1.326		26.5	25.0	6.1	20.0
Dibromochloromethane	Ave	0.7449	0.8033	0.1000	27.0	25.0	7.8	20.0
1,2-Dibromoethane	Ave	0.7054	0.7030		24.9	25.0	-0.3	20.0
Chlorobenzene	Ave	2.157	2.224	0.5000	25.8	25.0	3.1	20.0
Ethylbenzene	Ave	3.495	3.747	0.1000	26.8	25.0	7.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.7579	0.7813		25.8	25.0	3.1	20.0
m,p-Xylene	Ave	1.232	1.323	0.1000	26.8	25.0	7.4	20.0
o-Xylene	Ave	1.199	1.299	0.3000	27.1	25.0	8.4	20.0
Styrene	Ave	2.089	2.230	0.3000	26.7	25.0	6.7	20.0
Bromoform	Ave	0.5164	0.4856	0.1000	23.5	25.0	-6.0	50.0
Isopropylbenzene	Ave	3.228	3.644	0.1000	28.2	25.0	12.9	20.0
1,1,2,2-Tetrachloroethane	Ave	1.049	1.079	0.3000	25.7	25.0	2.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.4077	0.3865		23.7	25.0	-5.2	50.0
N-Propylbenzene	Ave	4.130	4.557		27.6	25.0	10.3	20.0
Bromobenzene	Ave	0.9202	0.9467		25.7	25.0	2.9	20.0
1,2,3-Trichloropropane	Ave	0.3276	0.3285		25.1	25.0	0.3	20.0
1,3,5-Trimethylbenzene	Ave	2.715	3.030		27.9	25.0	11.6	20.0
2-Chlorotoluene	Ave	0.8112	0.9017		27.8	25.0	11.2	20.0
4-Chlorotoluene	Ave	0.8848	0.9326		26.4	25.0	5.4	20.0
tert-Butylbenzene	Ave	0.5303	0.6139		28.9	25.0	15.7	20.0
1,2,4-Trimethylbenzene	Ave	2.869	3.185		27.8	25.0	11.0	20.0
sec-Butylbenzene	Ave	2.848	3.288		28.9	25.0	15.5	20.0
4-Isopropyltoluene	Ave	2.616	2.990		28.6	25.0	14.3	20.0
1,3-Dichlorobenzene	Ave	1.754	1.751	0.6000	25.0	25.0	-0.2	20.0
1,4-Dichlorobenzene	Ave	1.793	1.856	0.5000	25.9	25.0	3.5	20.0
n-Butylbenzene	Ave	2.298	2.608		28.4	25.0	13.5	20.0
1,2-Dichlorobenzene	Ave	1.670	1.698	0.4000	25.4	25.0	1.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-135305-1

SDG No.:

Lab Sample ID: CCVIS 480-413745/3 Calibration Date: 05/10/2018 21:13

Instrument ID: HP5973P Calib Start Date: 04/23/2018 22:24

GC Column: ZB-624 (60) ID: 0.25(mm) Calib End Date: 04/24/2018 01:09

Lab File ID: P32724.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.066	1.648	0.1000	19.9	25.0	-20.2	50.0
Chloromethane	Ave	3.444	3.243	0.1000	23.5	25.0	-5.9	20.0
Vinyl chloride	Ave	2.914	2.644	0.1000	22.7	25.0	-9.3	20.0
Butadiene	Ave	2.209	2.572		29.1	25.0	16.5	20.0
Bromomethane	Ave	1.566	1.501	0.1000	24.0	25.0	-4.1	50.0
Chloroethane	Ave	1.357	1.479	0.1000	27.3	25.0	9.0	50.0
Dichlorofluoromethane	Ave	3.921	3.810		24.3	25.0	-2.8	20.0
Trichlorofluoromethane	Ave	3.019	2.912	0.1000	24.1	25.0	-3.5	20.0
Ethyl ether	Ave	1.552	1.579		25.4	25.0	1.7	20.0
Acrolein	Ave	0.3286	0.3839		146	125	16.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.279	1.514	0.1000	29.6	25.0	18.3	20.0
1,1-Dichloroethene	Ave	1.588	1.585	0.1000	25.0	25.0	-0.2	20.0
Acetone	Ave	0.9885	1.149	0.1000	145	125	16.3	50.0
Iodomethane	Ave	2.421	2.368		24.5	25.0	-2.2	20.0
Carbon disulfide	Ave	6.302	6.599	0.1000	26.2	25.0	4.7	20.0
Methyl acetate	Ave	1.920	2.013	0.1000	52.4	50.0	4.8	50.0
Allyl chloride	Ave	3.223	3.559		27.6	25.0	10.4	20.0
2-Methyl-2-propanol	Ave	0.3060	0.2750		225	250	-10.1	50.0
Methylene Chloride	Lin1		1.863	0.1000	24.4	25.0	-2.4	20.0
Methyl tert-butyl ether	Ave	5.104	5.004	0.1000	24.5	25.0	-2.0	20.0
trans-1,2-Dichloroethene	Ave	1.643	1.576	0.1000	24.0	25.0	-4.1	20.0
Acrylonitrile	Ave	0.8335	0.9047		271	250	8.5	20.0
Hexane	Ave	1.643	2.013		30.6	25.0	22.5*	20.0
Vinyl acetate	Ave	4.667	5.323		57.0	50.0	14.1	20.0
1,1-Dichloroethane	Ave	3.180	3.235	0.2000	25.4	25.0	1.7	20.0
2-Butanone (MEK)	Ave	1.242	1.409	0.1000	142	125	13.5	20.0
2,2-Dichloropropane	Ave	2.208	2.303		26.1	25.0	4.3	20.0
cis-1,2-Dichloroethene	Ave	1.896	1.778	0.1000	23.4	25.0	-6.2	20.0
Chlorobromomethane	Ave	0.8056	0.7590		23.6	25.0	-5.8	20.0
Tetrahydrofuran	Ave	0.7874	0.8248		52.4	50.0	4.7	20.0
Chloroform	Ave	3.030	2.874	0.2000	23.7	25.0	-5.1	20.0
1,1,1-Trichloroethane	Ave	2.660	2.545	0.1000	23.9	25.0	-4.3	20.0
Cyclohexane	Ave	2.245	2.687	0.1000	29.9	25.0	19.7	20.0
1,1-Dichloropropene	Ave	2.235	2.295		25.7	25.0	2.6	20.0
Isobutyl alcohol	Ave	0.1239	0.1390		701	625	12.1	50.0
Carbon tetrachloride	Ave	2.206	2.282	0.1000	25.9	25.0	3.4	20.0
Benzene	Ave	6.486	6.272	0.5000	24.2	25.0	-3.3	20.0
1,2-Dichloroethane	Ave	3.191	2.916	0.1000	22.8	25.0	-8.6	20.0
n-Heptane	Ave	1.565	1.791		28.6	25.0	14.5	20.0
Trichloroethene	Ave	1.648	1.569	0.2000	23.8	25.0	-4.8	20.0

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 480-135305-1

SDG No.:

Lab File ID: 2018.05.15LLAA_007.d Lab Sample ID: MB 320-222744/1-A

Matrix: Water Date Extracted: 05/11/2018 13:02

Instrument ID: A8_N Date Analyzed: 05/15/2018 17:50

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-222744/2-A	2018.05.15L LAA 008.d	05/15/2018 17:58
	LCSD 320-222744/3-A	2018.05.15L LAA 009.d	05/15/2018 18:06
URS-03	480-135305-1	2018.05.15L LAA 018.d	05/15/2018 19:16
SW-32	480-135305-7	2018.05.15L LAA 019.d	05/15/2018 19:24
SW-33	480-135305-8	2018.05.15L LAA 020.d	05/15/2018 19:32
URS-08	480-135305-12	2018.05.15L LAA 021.d	05/15/2018 19:40
URS-09	480-135305-13	2018.05.15L LAA 022.d	05/15/2018 19:48
URS-15	480-135305-14	2018.05.15L LAA 023.d	05/15/2018 19:55
URS-02	480-135305-19	2018.05.15L LAA 024.d	05/15/2018 20:03
URS-05	480-135305-24	2018.05.15L LAA 027.d	05/15/2018 20:27
URS-13	480-135305-26	2018.05.15L LAA 028.d	05/15/2018 20:34
EB-050218	480-135305-27	2018.05.15L LAA 029.d	05/15/2018 20:42
FB-050218	480-135305-28	2018.05.15L LAA 030.d	05/15/2018 20:50

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 480-135305-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-222744/1-A

Matrix: Water | Lab File ID: 2018.05.15LLAA_007.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 05/11/2018 13:02

Sample wt/vol: 250(mL) | Date Analyzed: 05/15/2018 17:50

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 223461 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	ND		2.0	0.85
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.293	J	2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35
2355-31-9	N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	ND		20	3.1
2991-50-6	N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	ND		20	1.9
27619-97-2	6:2FTS	2.31	J	20	2.0
39108-34-4	8:2FTS	ND		20	2.0

APPENDIX C

MONITORING WELL INSPECTION FORMS

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	B1/PZ-3	**Time:**	0850

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	GOOD	**Yes / No**	KGW
	Well label	NONE	**Yes / No**	
	Lock and Cover	GOOD	**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		TURN TO WEST		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:		B4/PZ-1	**Time:**	1110
Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	GOOD	**Yes / No**	JGM
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space	✓	**Yes / No**	✓
Comments:		FLUSH IN WELL		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	MW-5	**Time:**	11:20

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	GOOD	**Yes / No**	
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		TUBING IN WELL		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:		OW-35	**Time:**	11:32
Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	Good	**Yes / No**	JLSW
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		TUBING IN WELL TOP		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:		OW-4S	**Time:**	11:10	
Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**		**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	GOOD		**Yes / (No)**	ICSW
	Well label	NONE		**(Yes) / No**	
	Lock and Cover	GOOD		**Yes / No**	
Interior	**Well cap**			**Yes / No**	
	Well riser			**Yes / No**	
	Annular space			**Yes / No**	✓
Comments:		TUBING IN WELL NEEDS LABELING			

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	OW-5S	**Time:**	0815

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	Good	**Yes / No**	JCS
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		Tubing in Well		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	OW-6S	**Time:**	10:50

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	Good	**Yes / No**	KSM
	Well label	✓	**Yes / No**	✓
	Lock and Cover	✓	**Yes / No**	✓
Interior	**Well cap**	✓	**Yes / No**	✓
	Well riser	✓	**Yes / No**	✓
	Annular space	✓	**Yes / No**	✓
Comments:		Tubing in water		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:		OW-7S	**Time:**	09:35
Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	NONE (PVC STICK UP)	**Yes / No**	KTM
	Well label	NONE	**Yes / No**	
	Lock and Cover	✓	**Yes / No**	
Interior	**Well cap**	GOOD	**Yes / No**	
	Well riser	✓	**Yes / No**	
	Annular space	NA	**Yes / No**	✓
Comments:		OW-7S HAS AN OUTER CASING. IT'S JUST A 4" DIA SCH 40 PVC RISER W/ T-PLUG OUTER STICK UP CASING MAY BE INSTALLED TUBING IN WELL		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	SW-32	**Time:**	09:40

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	Good	**Yes / No**	KEW
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space	✓	**Yes / No**	✓
Comments:		TUBING IN WELL		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	SW-33	**Time:**	09:44

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	Good	**Yes / No**	KSW
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		Tubing in well		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	SW37	**Time:**	0930

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	Good	**Yes / No**	JCSM
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		Tubing in well		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:		MW-02	**Time:**	11:15
Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	Good	**Yes / No**	KM
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		TUBING IN WATER		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	MW5-03	**Time:**	0815

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	GOOD	**Yes / No**	IGM
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space	✓	**Yes / No**	✓
Comments:		TUBING IN WELL		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:		LMS-UH	**Time:**	09:30
Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	BROKEN	**Yes / No**	LSH
	Well label	NONE	**Yes / No**	
	Lock and Cover	NEED POOL	**Yes / No**	
Interior	**Well cap**	GOOD	**Yes / No**	
	Well riser	✓	**Yes / No**	
	Annular space	NEEDS TO BE DUG OUT	**Yes / No**	✓
Comments:		THERE'S AN OBSTRUCTION BELOW TOP OF WATER PREVENTING HYDROSLEEVE FROM SAMPLING CURB BOX NEEDS REPLACEMENT		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	MW5-05	**Time:**	11:55

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	GOOD	**Yes / No**	JCG
	Well label	NONE	**Yes / No**	
	Lock and Cover	GOOD	**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		NEEDS LABEL		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	MW5-06	**Time:**	13:00

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	GOOD	Yes / (No)	KSH
	Well label	NONE	(Yes) / No	
	Lock and Cover	GOOD	Yes / (No)	
Interior	**Well cap**		Yes / No	
	Well riser		Yes / No	
	Annular space		Yes / No	
Comments:		TUBING IN WELL WELL LID CURRENTLY SECURED W/ BOLTS REQUIRING ALLEN WRENCHES, SHOULD REPLACE W/ STD 9/16" SS BOLTS NEEDS LABEL		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:		MW-01	**Time:**	10:56
Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	Good	**Yes / No**	TMH 10/5/11
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		Tubing in well		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:		MW-08	**Time:**	10:15
Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	Good	**Yes / No**	KSM
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		Turbine in use		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:		MW5-09	**Time:**	10:17
Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	GOOD	**Yes / No**	KSH
	Well label	~~NO [illegible] NO~~ GO GOOD	**Yes / No**	
	Lock and Cover	NO LOCK, NO COVER	**Yes / No**	
Interior	**Well cap**	GOOD	**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		NEEDS NEW EXT CASING & LOCKING CAP		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:		MW S-11	**Time:**	09:52
Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	GOOD	**Yes / No**	KTW
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		TUBING IN MW		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	MW-12	**Time:**	09:54

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	Good	**Yes / No**	KSH
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		Tubing in water		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:		MW-13	**Time:**	1315
Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	GOOD	**Yes / No**	KSH
	Well label	NONE	**Yes / No**	
	Lock and Cover	GOOD	**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		NEEDS LABEL		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:		MW5-14	**Time:**	08:30
Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	Good	**Yes / No**	JCS
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		TUBING IN WELL		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	MW-15	**Time:**	10:46

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	GOOD	**Yes / No**	JKM
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space		**Yes / No**	
Comments:		TUBING IN WELL		

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

WELL INSPECTION LOG SHEET (provide for each well inspected)

Well ID:	MW-16	**Time:**	11:30

Area	**Item Inspected**	**Description of Condition (attach additional sheet if needed)**	**Additional Maintenance Needed?**	**Inspector's Initials**
Exterior	**Casing and collar**	Good	**Yes / No**	JCM
	Well label		**Yes / No**	
	Lock and Cover		**Yes / No**	
Interior	**Well cap**		**Yes / No**	
	Well riser		**Yes / No**	
	Annular space	✓	**Yes / No**	✓
Comments:		Tubing in Well		

APPENDIX D

SITE INSPECTION FORM

STUART OLVER HOLTZ SITE
NYSDEC SITE NO. 828079
INSPECTION FORM

GENERAL INFORMATION

Date:	5/2/18	**Inspector:**	KEVIN T. MCGOVERN
Weather:	SUNNY	**Signature:**	
Temperature:	75 °F	**Company:**	UNS
Season (circle one): Winter	(Spring)	Summer	Fall

SITE INSPECTION LOG SHEET*

Evidence of Site-Wide Disturbance(s)	Yes (No)	**Description of Disturbance(s)**	
Evidence of Surface Soil Disturbance(s)	Yes (No)	**Description of Disturbance(s)**	
Evidence of Excavation	Yes (No)	**Description of Excavation**	
Evidence of Building Construction	Yes (No)	**Description of Building Construction**	
Evidence of Change in Site Use	Yes (No)	**Description of New/Additional Site Use**	
Comments:			

* If answering Yes, attach map showing locations and any other information as required.