URS

January 12, 2015

Mr. Todd M. Caffoe, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, New York 14414-9519

RE: Supplemental Groundwater Sampling Letter Report
Former Griffin Technology Facility (Site No. 835008)
Farmington, New York

Dear Mr. Caffoe:

On behalf of Diebold, Inc. (Diebold), URS Corporation (URS) has prepared this Supplemental Groundwater Sampling Letter Report to summarize field activities as part of the groundwater sampling effort performed in October 2014 in the vicinity of the former Griffin Technology Facility (Site) located in Farmington, New York (Figure 1).

Based on data collected during the March 2013 groundwater sampling event (URS, 2013), URS submitted a proposal to the New York State Department of Environmental Conservation (NYSDEC) to decommission off-site monitoring wells MW-09S, MW-09D, MW-10S, MW-10D and MW-11D. On May 29, 2014, the NYSDEC responded by requesting an additional round of groundwater samples be collected from off-site monitoring wells MW-09S, MW-10S, and MW-11D, and analyzed for volatile organic compounds (VOCs) in accordance with the *Operations and Monitoring Plan for Annual Offsite Groundwater Monitoring* (O&M Plan) (URS, 2011).

This additional round of field work was performed on October 30, 2014, and included:

- Collecting water levels from nine existing off-site monitoring wells identified in the O&M Plan.
- Collecting groundwater samples from existing off-site monitoring wells MW-09S, MW-10S, and MW-11D.

The data generated from the October 2014 field work are discussed below.

Groundwater Levels and Flow Direction

Figure 2 shows the shallow groundwater potentiometric surface on October 30, 2014. Groundwater levels during the 2014 sampling event were lower than those measured in March 2013, probably as a result of seasonal variations. Groundwater levels in the overburden measured approximately 8 feet lower in the northern monitoring wells (MW-06S and MW-07S) and approximately 1.3 feet lower in the southern monitoring well (MW-10S). The groundwater flow in the overburden wells is to the south-southwest towards Beaver Creek. This is consistent with groundwater flow direction observed

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during prior sampling events in the overburden wells.

Figure 3 shows the deep groundwater potentiometric surface on October 30, 2014. Groundwater levels in the bedrock measured over 7 feet lower in the eastern monitoring wells (MW-11D and MW-06D) and approximately 1-foot lower in the southern monitoring well (MW-10D). The groundwater flow in the bedrock wells is to the west-northwest. This is consistent with the groundwater flow direction observed during prior sampling events in the bedrock wells.

In October 2014, horizontal gradients were approximately 0.017 ft./ft. in the overburden, and 0.032 ft./ft. in the bedrock. Vertical gradients were downward in monitoring well pairs MW-07S/D, MW-09S/D, and MW-10S/D. There was a negligible downward vertical gradient in MW-06S/D.

Sampling, Analysis and Data Usability

On October 30, 2014 URS personnel collected a round of groundwater samples from three existing off-site monitoring wells (MW-09S, MW-10S and MW-11D) plus QA/QC samples (i.e., duplicate sample). Prior to sample collection, standing water was purged from each well with a peristaltic pump using dedicated/disposable high-density polyethylene (HDPE) tubing. During the well purging, water quality parameters (pH, temperature, specific conductivity, dissolved oxygen, turbidity and reduction potential) were measured and documented. These parameters were measured utilizing a flow-through cell until they stabilized. The wells were purged at a rate of 1-liter per minute or less and the purge rate was adjusted to prevent the water level in the well from dropping more than 0.3 feet from the static water level. A minimum of 1 well volume was purged until the water quality parameters stabilized for a minimum of three readings. The water level measurements obtained from these off-site monitoring wells are provided in Table 1. Low Flow Purge Logs can be found in Attachment 1.

Collected groundwater samples were transported under chain-of-custody (COC) control to TestAmerica Laboratories, Inc., located in Amherst, New York, for the analysis of VOCs by USEPA Method 8260B. A Data Usability Summary Report (DUSR) was generated for the October 2014 groundwater sampling event. It was determined that no data qualifications were made and that all data are usable as reported. The complete validated analytical results are presented in the DUSR in Attachment 2.

Analytical Summary/ Contamination Assessment

The validated analytical results from the groundwater samples are summarized in Table 2. VOCs are compared to NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) No. 1.1.1 Class GA groundwater criteria. Exceedances are indicated with an oval. The locations of detected VOCs that have exceeded their respective criteria are shown on Figure 4. The following is a summary of the analytical results:

- Trichloroethene (TCE) was the only compound detected at concentrations exceeding Class GA groundwater criteria in the groundwater samples collected. TCE was only detected in the sample collected from MW-10S at a concentration of 15 micrograms per liter (µg/L).

The detected concentrations of the chlorinated VOCs in the 2014 groundwater samples as compared to results from the March 2013 and August 2009 sampling event are as follows:

- No VOCs were detected in MW-09S or MW-11D during all three sampling events.

- TCE concentrations increased in MW-10S from below criteria in 2009 (4.6 µg/L) to above criteria in 2013 (17 µg/L), but decreased slightly in 2014 (15 µg/L), see Figure 5. It should be noted that TCE was the only compound detected above criteria in the entire sampling history of MW-10S.

A Mann-Kendall trend analyses was performed on the historical VOC concentrations between 1996 and 2014, in MW-09S, MW-10S and MW-11D. The trend analysis is presented in Table 3 and shows the following:

- No trends in the TCE detections in MW-09S.

- No trends in the TCE, 1,1,1-Trichloroethane and cis-1,2-Dichloroethene detections in MW-10S.

- No VOC detections in MW-11D.

Conclusions

The direction of groundwater flow at the Site has remained constant since 2009.

Since 2009, no compounds were detected in the samples collected from MW-09S and MW-11D. TCE and cis-1,2-Dichloroethene were the only compounds detected in MW-10S since 2009, with TCE being the only compound detected at concentrations exceeding NYSDEC groundwater criteria. However, TCE concentrations in MW-10S decreased between the 2013 and 2014 sampling events.

Recommendations

URS recommends decommissioning monitoring wells MW-09S, MW-09D, MW-10S, MW-10D and MW-11D in accordance with NYSDEC's (CP-43) Groundwater Monitoring Well Decommissioning Policy (NYSDEC, 2009). These monitoring wells would be decommissioned using the following steps:

- Each well would be tremie grouted from the bottom of the well to within five feet of the ground surface to ensure a continuous grout column.

- The well casing will be removed if possible and the outer protective casing "stick-up" and/or flush-mount curb box will be removed only after the well has been properly filled with grout.

- A ferrous metal marker will be embedded in the top of the grout to indicate the location of the former monitoring well.

- The uppermost five feet of the borehole will be filled with material physically similar to the

natural soils (silts and sands).

- The surface of the borehole will be restored to the condition of the area surrounding the borehole (crushed stone/grass).

Upon completion of the decommissioning, a Periodic Review Report (PRR) will be prepared in accordance with NYSDEC's Division of Environmental Remediation (DER-10) Technical Guidance for Site Investigation and Remediation (NYSDEC, 2010), which will summarize the off-site work completed to date.

References

NYSDEC, 2009. *CP-43:Groundwater Monitoring Well Decommissioning Policy*. November 3.

NYSDEC, 2010. *DER-10 / Technical Guidance for Site Investigation and Remediation*. May 3.

NYSDEC, 2014. Letter to Diebold. May 29.

URS, 2011. *Operations and Monitoring Plan for Annual Offsite Groundwater Monitoring*. June

URS, 2013. *Groundwater Sampling Letter Report, Former Griffin Technology Facility, Farmington, New York* .July

The following tables, figures and attachments are included as part of this field investigation letter report:

Tables

Table 1	Groundwater Elevations – October 30, 2014
Table 2	Groundwater Sampling Analytical Results (Detected Compounds Only)
Table 3	Groundwater Sampling Analytical Result Trends (Detected VOCs Only)

Figures

Figure 1	Project Site
Figure 2	Shallow Groundwater Potentiometric Surface – October 30, 2014
Figure 3	Deep Groundwater Potentiometric Surface – October 30, 2014
Figure 4	2014 Groundwater Sample Results Exceeding Criteria
Figure 5	Trichloroethene Concentrations in MW-10S

Attachments

Attachment 1	Purge Logs
Attachment 2	Data Usability Summary Report and Complete Analytical Report

Should you have any questions or comments, please do not hesitate to contact me at 716-856-5636.

Sincerely,

URS Corporation

Michael Gutmann
Sr. Project Manager

Jack Wilcox, V.P., P.E.
Registered Professional Engineer
New York License No. 16 066336

cc: File: 13816402 (C-1)
Ms. Megan Weidner, Diebold, Inc.
Kevin J. McGovern P.G., CPG, CHMM (URS)

TABLES

TABLE 1
GROUNDWATER ELEVATIONS
OCTOBER 30, 2014
FORMER GRIFFIN TECHNOLOGY FACILITY - OFF-SITE AREA
FARMINGTON, NEW YORK

Well ID	Top of Casing Elevation (ft. amsl)	Date	Depth to Groundwater (ft. from Top of Casing)	Groundwater Elevation (ft. amsl)
MW-06S	636.61	10/30/2014	12.32	624.29
MW-06D	636.83	10/30/2014	11.02	625.81
MW-07S	634.29	10/30/2014	11.94	622.35
MW-07D	634.16	10/30/2014	38.81	595.35
MW-09S	630.16	10/30/2014	13.15	617.01
MW-09D	630.29	10/30/2014	34.40	595.89
MW-10S	629.00	10/30/2014	15.59	613.41
MW-10D	626.80	10/30/2014	16.54	610.26
MW-11D	641.89	10/30/2014	15.00	626.89

ft. = feet
amsl = above mean sea level

TABLE 2
GROUNDWATER SAMPLING ANALYTICAL RESULTS (DETECTED COMPOUNDS ONLY)
FORMER GRIFFIN TECHNOLOGY FACILITY SITE

Location ID			MW-09S	MW-09S	MW-10S	MW-11D
Sample ID			FD-20141030	MW-09S	MW-10S	MW-11D
Matrix			Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-
Date Sampled			10/30/14	10/30/14	10/30/14	10/30/14
Parameter	Units	Criteria*	Field Duplicate (1-1)			
Volatile Organic Compounds						
1,2-Dichloroethene (cis)	UG/L	5			0.87 J	
Trichloroethene	UG/L	5			15	

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

J - The reported concentration is an estimated value. Blank Cell - Not Detected.

Only Detected Results Reported.

Advanced Selection: Griffin 2014
J:\Projects\Small_Chemistry_Jobs\DB\Program\EDMS.mde
Printed: 12/2/2014 2:04:03 PM
[SITEID] = '13807296' AND [LOGDATE] >= #10/30/2014# AND [MATRIX] = 'WG' AND ([SACODE] = 'FD' OR [SACODE] = 'N')

TABLE 3
GROUNDWATER SAMPLING ANALYTICAL RESULT TRENDS (DETECTED VOCS ONLY)
FORMER GRIFFIN TECHNOLOGY FACILITY SITE

LOCID: MW-09S

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
Trichloroethene	WG	VOA	17	2	-21	0.22	No Trend

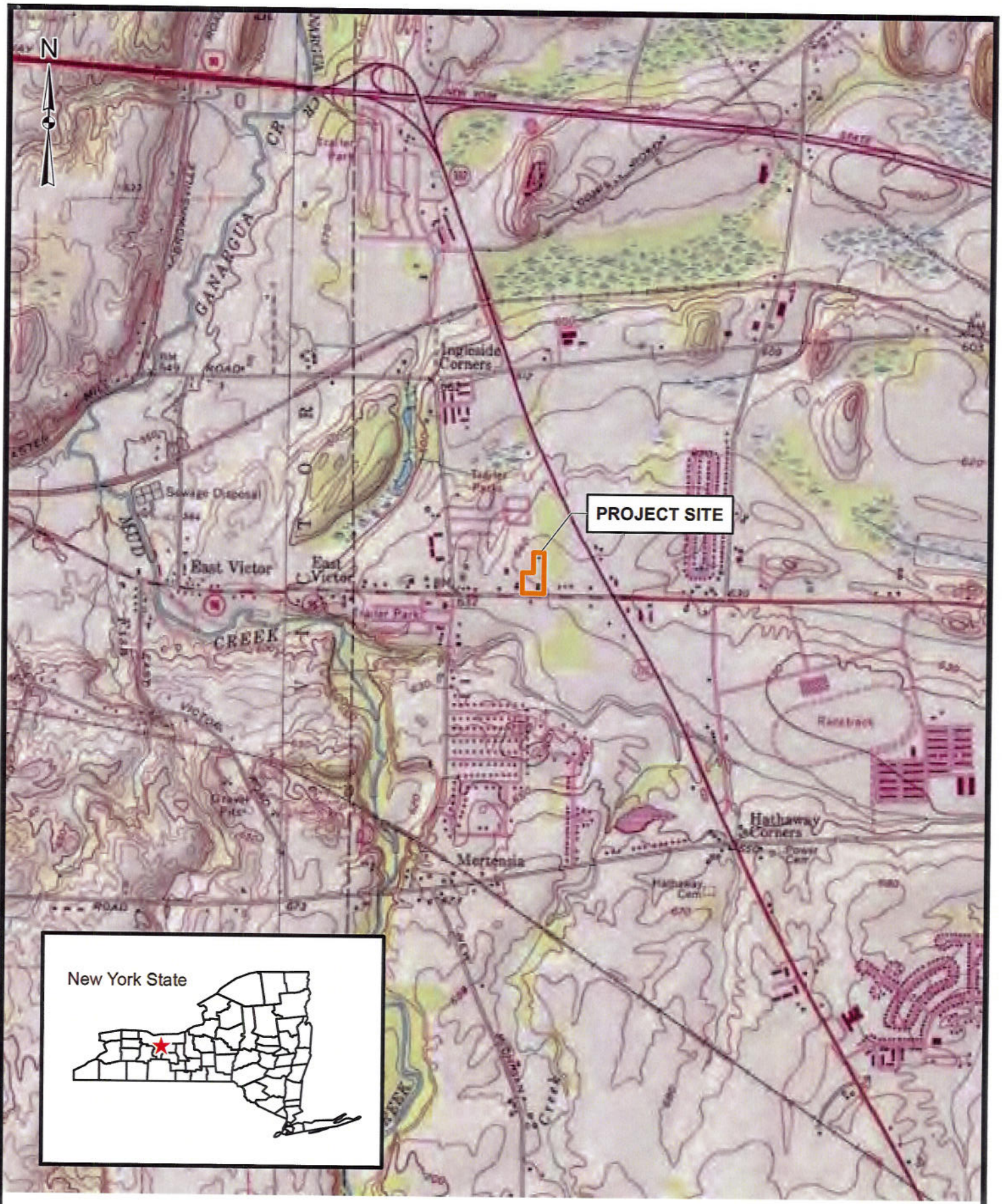
LOCID: MW-10S

Parameter	Matrix	Class	Num of Data Points	Num of Data Point Detections	Mann-Kendall Statistic S	Probabilities (1)	Trend (2)
1,1,1-Trichloroethane	WG	VOA	17	1	-14	0.299	No Trend
1,2-Dichloroethene (cis)	WG	VOA	17	1	16	0.271	No Trend
Methylcyclohexane	WG	VOA	3	1		Insufficient Data *	
Trichloroethene	WG	VOA	17	13	-18	0.245	No Trend

For multiple observations per time period, the Mann-Kendall test to the median was used.
Data reported as less than the detection limit were used by assigning a common value to the data that was smaller than the smallest measurement in the data set.
(1) - Probabilities for Mann-Kendall Nonparameteric Test for Trend (Gilbert R.O. 1987, Table A18).
(2) - Assuming a probability of error of 10% in the analyis method and or data, then the probability of no trend as calculated by the Mann-Kendall statistic is less than 10%, then it is assumed that there is a trend.
* - Number of obsevations too small to calculate probablities.
** - Probability Undefined for S=0 and N=6, 7, 10, 11, 14, 15, 18, 19, 22, 23, 26, 27, 30, 31, 34, or 35.

Only Detected Results Reported.

Advanced Selection: Griffin Hist MK
J:\Projects\Small_Chemistry_Jobs\DB\Programs\Stat.mdb
12/2/2014
WHERE [SITEID] = '13807296' AND [MATRIX] = 'WG' AND ([SACODE] = 'FD' OR [SACODE] = 'N') AND ([LOCID] = 'MW-09S' OR [LOCID] = 'MW-10S' OR [LOCID] = 'MW-11D') AND [PRCCODE] = 'VOA';



Source:
- National Geographic TOPO! via ArcGIS online data services.

2,000 0 2,000 Feet

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FORMER GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK
PROJECT SITE

FIGURE 1

J:\13807296.00000\DB\GIS\Soil Vapor and GW Sampling Letter\FIGURE 1.mxd 3/30/2011 JRC

J:\Projects\138072960.00000\DB\GIS\GW SHALLOW 20141030.mxd 11/26/2014

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GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE
OCTOBER 30, 2014

FIGURE 2

Legend

- Groundwater Monitoring Well
- 620 — Groundwater Contours (FT AMSL)

FT AMSL = Feet above mean sea level.

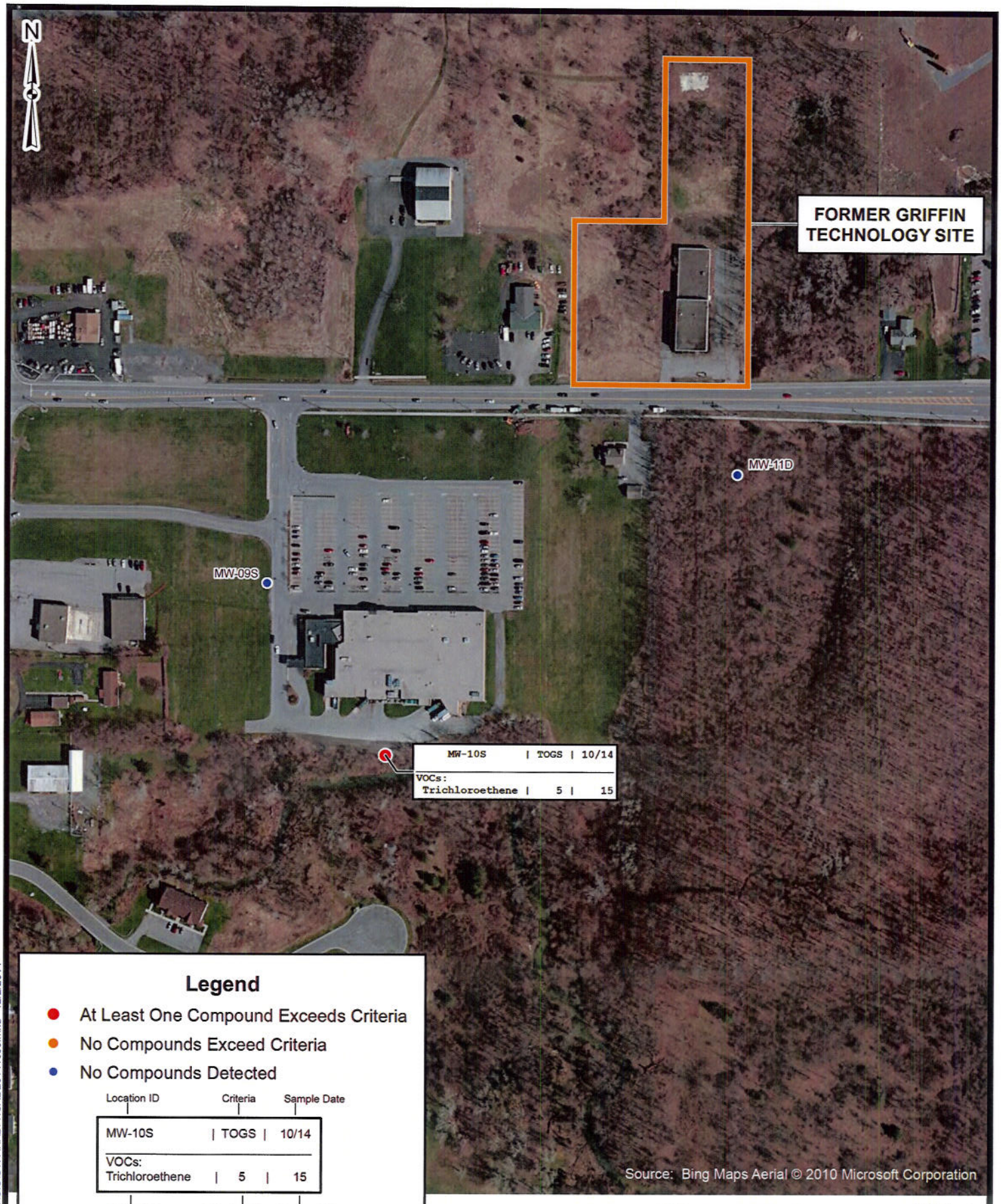
250 0 250 Feet

J:\Projects\138007296.00000\DB\GIS\GW DEEP 20141030.mxd 11/26/2014

URS

GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK
DEEP GROUNDWATER POTENTIOMETRIC SURFACE
OCTOBER 30, 2014

FIGURE 3



Legend

- At Least One Compound Exceeds Criteria
- No Compounds Exceed Criteria
- No Compounds Detected

Location ID	Criteria	Sample Date
MW-10S	TOGS	10/14
VOCs: Trichloroethene	5	15
Parameter	Criteria Value (UG/L)	Concentration (UG/L)

TOGS: NYSDEC TOGS (1.1.1), Ambient water quality standards and guidance values and groundwater effluent limitations

250 0 250 Feet

J:\Projects\13807296.00000\DB\GIS\GW ANALYTICAL 20141030.mxd 12/2/2014

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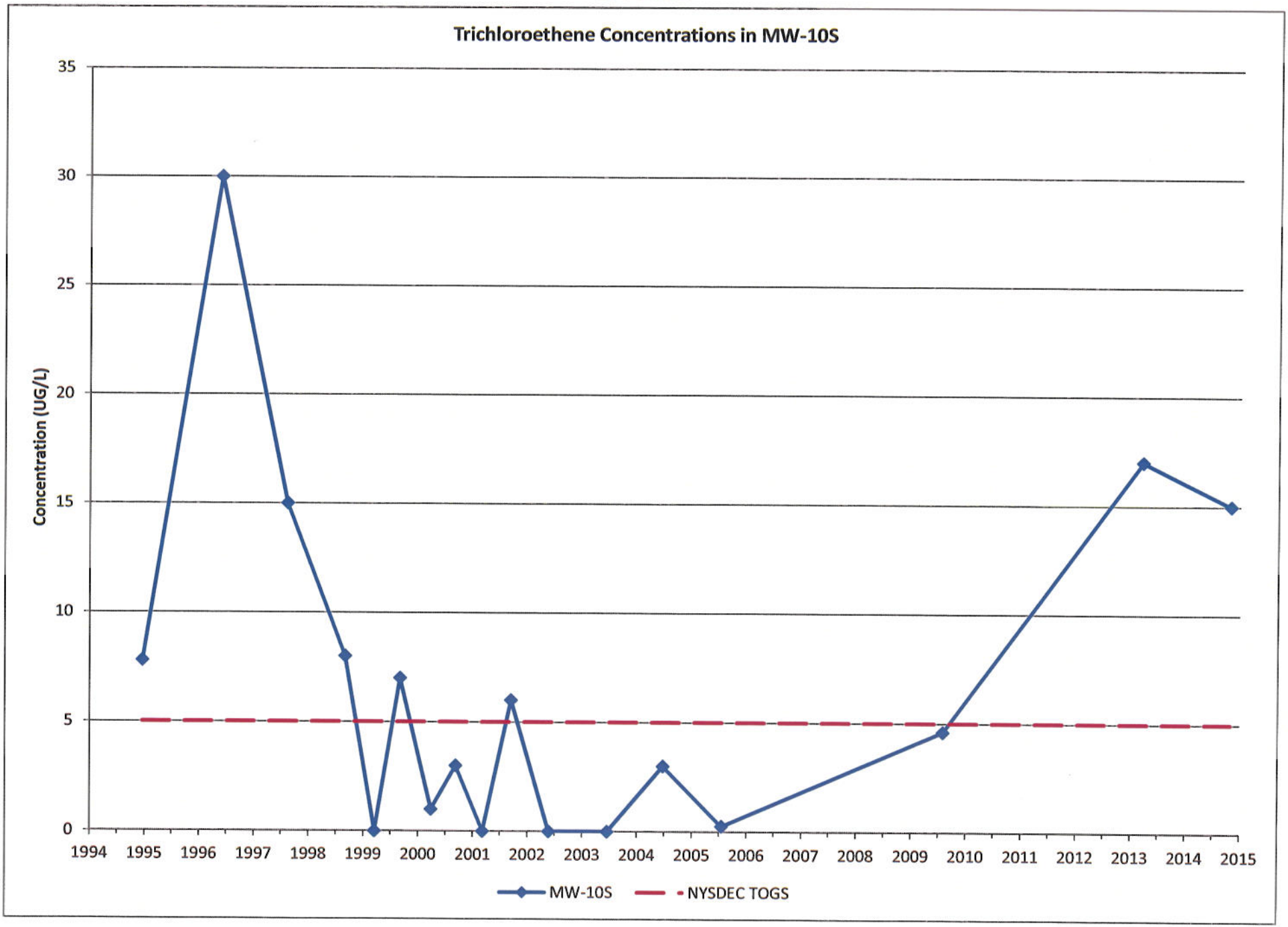
GRIFFIN TECHNOLOGY, INC.
FARMINGTON, NEW YORK
2014 GROUNDWATER SAMPLE RESULTS EXCEEDING CRITERIA

FIGURE 4

FIGURE 5



J:\Projects\Small_Chemistry_Jobs\DB\Program\EDMS.mde
Figure 5.xlsx, Trichloroethene-plot, 11/13/2014

ATTACHMENT 1

PURGE LOGS

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Former Griffin Technology Site: Griffin Well I.D.: MW-09S

Date: 10/30/14 Sampling Personnel: Kevin McGovern Company: URS Corporation

Purging/ Sampling Device: Geopump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Top of Riser Initial Depth to Water (ft.): 13.15 Depth to Well Bottom (ft.): 26.40 Well Diameter: 2" Screen Length: 10'

Casing Type: SCH 40 PVC Volume in 1 Well Casing (liters): 8.18 Estimated Purge Volume (liters): 9

Sample ID: MW-09S Sample Time: 10:46 QA/QC: FD-20141030

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
10:16	6.92	12.20	2.78	0.30	26.50	195	300	13.75
10:21	6.92	12.48	2.81	0.00	17.30	193	300	13.80
10:26	6.94	12.68	2.67	0.00	0.00	157	300	13.85
10:31	6.93	12.76	2.70	0.00	0.00	107	300	13.85
10:36	6.94	12.76	2.77	0.00	0.00	94	300	13.85
10:41	6.94	12.74	2.80	0.00	0.00	98	300	13.85
10:46	6.95	12.81	2.80	0.00	0.00	101	300	13.85
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft.; 1 inch diameter well = 154 ml/ft.; 2 inch diameter well = 617 ml/ft.; 4 inch diameter well = 2470 ml/ft. (vol $_{cyl} = \pi r^2 h$)

Comments:

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Former Griffin Technology Site: Griffin Well I.D.: MW-10S

Date: 10/30/14 Sampling Personnel: Kevin McGovern Company: URS Corporation

Purging/ Sampling Device: Geopump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Top of Riser Initial Depth to Water (ft.): 15.59 Depth to Well Bottom (ft.): 22.20 Well Diameter: 2" Screen Length: 10'

Casing Type: SCH 40 PVC Volume in 1 Well Casing (liters): 4.08 Estimated Purge Volume (liters): 8.75

Sample ID: MW-10S Sample Time: 9:43 QA/QC: None

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
9:08	7.12	10.32	1.33	3.22	>1000	272	250	16.60
9:13	6.83	11.68	1.28	0.00	>1000	278	250	17.15
9:18	6.83	12.00	1.30	0.00	934	258	250	17.59
9:23	6.82	12.12	1.32	0.00	>1000	101	250	--
9:28	6.91	12.07	1.89	0.00	817	-36	250	17.85
9:33	6.94	12.07	1.93	0.00	721	-80	250	17.89
9:38	6.94	12.12	1.96	0.00	725	-75	250	17.89
9:43	6.98	12.17	1.98	0.00	699	-78	250	17.89
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft.; 1 inch diameter well = 154 ml/ft.; 2 inch diameter well = 617 ml/ft.; 4 inch diameter well = 2470 ml/ft. ($vol_{cyl} = \pi r^2 h$)

Comments:
Attached Pink Ribbon to Lid Before Reburial with Gravel

LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: Former Griffin Technology Site: Griffin Well I.D.: MW-11D

Date: 10/30/14 Sampling Personnel: Kevin McGovern Company: URS Corporation

Purging/ Sampling Device: Geopump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Top of Riser Initial Depth to Water (ft.): 15.00 Depth to Well Bottom (ft.): 35.70 Well Diameter: 2" Screen Length: 10'

Casing Type: SCH 40 PVC Volume in 1 Well Casing (liters): 12.77 Estimated Purge Volume (liters): 15

Sample ID: MW-11D Sample Time: 12:29 QA/QC: None

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
11:59	6.96	11.29	1.84	0.00	0.00	266	500	15.00
12:04	6.94	11.18	1.84	0.00	0.00	262	500	15.00
12:09	6.93	11.13	1.84	0.00	0.00	259	500	15.00
12:14	6.92	11.09	1.84	0.00	0.00	257	500	15.00
12:19	6.92	11.08	1.84	0.00	0.00	255	500	15.00
12:24	6.92	11.09	1.84	0.00	0.00	253	500	15.00
12:29	6.91	11.08	1.83	0.00	0.00	250	500	15.00
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES–0.75 inch diameter well = 87 ml/ft.; 1 inch diameter well = 154 ml/ft.; 2 inch diameter well = 617 ml/ft.; 4 inch diameter well = 2470 ml/ft. ($vol_{cyl} = \pi r^2 h$)

Comments:

ATTACHMENT 2

DATA USABILITY SUMMARY REPORT
AND
COMPLETE ANALYTICAL REPORT

MEMORANDUM

TO: Mike Gutmann

FROM: George Kisluk

DATE: November 12, 2014

SUBJECT: **Groundwater Analytical Results**
Former Griffin Technology Facility

Three groundwater samples and one field duplicate were collected from the Former Griffin Technology Facility site on October 30, 2014, and delivered to TestAmerica Laboratories, Inc., located in Amherst, NY (TA-Buffalo) for analysis. A trip blank accompanied the samples. The samples were received by the laboratory intact, properly preserved and under proper chain-of-custody (COC).

The samples were analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260C. The analytical method referenced is from *Test Methods for Evaluating Solid Waste-Physical/Chemical Methods, SW-846, Final Update III*, USEPA, June 1997.

The following USEPA Region II standard operating procedure (SOP) was used to evaluate and, when required, qualify the data:

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

A limited data review was performed for completeness of deliverables, and for compliance with method and validation SOP criteria, which includes quantitation limits, holding times, method blanks, trip blanks, surrogate recoveries, MS/MSD recoveries, and laboratory control sample (LCS) recoveries. Only method and validation SOP non-conformances are discussed in this report.

The validated analytical results are provided in Table 1. Definitions of USEPA Region II data qualifiers are presented at the end of this memorandum.

VOCs

The continuing calibration verification (CCV) associated with all samples exhibited high percent difference (%D) for 1,1,2-trichloro-1,2,2,-trifluoroethane and methylcyclohexane. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data for these two compounds have been qualified 'UJ' in all samples.

No other data qualifications were made and all other data are usable as reported.

Field Duplicate Results

Sample FD-20141030 is a field duplicate of MW-09S, which showed good analytical precision. No VOCs were detected in the parent sample and field duplicate.

cc: File: 13816402.00000

DEFINITION OF USEPA REGION II DATA QUALIFIERS

The following are definitions of the qualifiers assigned to results during the data review process.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

TABLE 1
VALIDATED ANALYTICAL RESULTS
FORMER GRIFFIN TECHNOLOGY FACILITY SITE

Location ID			FIELDQC	MW-09S	MW-09S	MW-10S	MW-11D
Sample ID			TRIP BLANK	FD-20141030	MW-09S	MW-10S	MW-11D
Matrix			Water Quality	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/30/14	10/30/14	10/30/14	10/30/14	10/30/14
Parameter	Units	Criteria*	Trip Blank (1-1)	Field Duplicate (1-1)			
Volatile Organic Compounds							
1,1,1-Trichloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	0.006	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	5	1.0 U	1.0 U	1.0 U	0.87 J	1.0 U
1,2-Dichloroethene (trans)	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	-	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	50	10 U	10 U	10 U	10 U	10 U
Benzene	UG/L	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	UG/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

Concentration Exceeds Criteria

J - The reported concentration is an estimated value. U - Not detected above the reported quantitation limit. NA - Not applicable.
UJ - Not detected. The reported quantitation limit is an estimated value.
Made By: GEK 11/12/2014 Checked By: PRF 11/12/2014

Detection Limits shown are PQL

TABLE 1
VALIDATED ANALYTICAL RESULTS
FORMER GRIFFIN TECHNOLOGY FACILITY SITE

Location ID			FIELDQC	MW-09S	MW-09S	MW-10S	MW-11D
Sample ID			TRIP BLANK	FD-20141030	MW-09S	MW-10S	MW-11D
Matrix			Water Quality	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)			-	-	-	-	-
Date Sampled			10/30/14	10/30/14	10/30/14	10/30/14	10/30/14
Parameter	Units	Criteria*	Trip Blank (1-1)	Field Duplicate (1-1)			
Volatile Organic Compounds							
Bromomethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	UG/L	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	-	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl ethyl ketone (2-Butanone)	UG/L	50	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	UG/L	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	-	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylene chloride	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	UG/L	5	1.0 U	1.0 U	1.0 U	15	1.0 U
Trichlorofluoromethane	UG/L	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	UG/L	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylene (total)	UG/L	5	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

*Criteria- NYSDEC TOGS (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June 1998, including January 1999 Errata Sheet, April 2000 and June 2004 Addenda. Class GA.

Flags assigned during chemistry validation are shown.

(oval) Concentration Exceeds Criteria

J - The reported concentration is an estimated value. U - Not detected above the reported quantitation limit. NA - Not applicable.
UJ - Not detected. The reported quantitation limit is an estimated value.
Made By: GEK 11/12/2014 Checked By: PRF 11/12/2014

Detection Limits shown are PQL

J:\Projects\Small_Chemistry_Jobs\DB\Program\EDMS.mde
Printed: 11/12/2014 12:05:51 PM
[LOGDATE] = #10/30/2014#

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-70444-1
Client Project/Site: Griffin Diebolt

For:
URS Corporation
257 W. Genesee Street
Buffalo, New York 14203

Attn: Mr. George Kisluk

Authorized for release by:
11/11/2014 3:10:15 PM
Rebecca Jones, Project Management Assistant I
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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS VOA TICs

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-70444-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-70444-1

Receipt
The samples were received on 10/30/2014 2:53 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6° C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 213021 recovered above the upper control limit for 1,1,1,2-Trichloro-1,2,2,-trifluoroethane and Methylcyclohexane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-213021/5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: URS Corporation
Project/Site: Griffin Diebolt

TestAmerica Job ID: 480-70444-1

Client Sample ID: MW-09S — Lab Sample ID: 480-70444-1

No Detections.

Client Sample ID: MW-10S — Lab Sample ID: 480-70444-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.87	J	1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	15		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: MW-11D — Lab Sample ID: 480-70444-3

No Detections.

Client Sample ID: FD-20141030 — Lab Sample ID: 480-70444-4

No Detections.

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-70444-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-09S
Date Collected: 10/30/14 10:46
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/10/14 04:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/10/14 04:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/10/14 04:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	UJ	1.0	0.31	ug/L			11/10/14 04:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/10/14 04:31	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/10/14 04:31	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/10/14 04:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/10/14 04:31	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/10/14 04:31	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/10/14 04:31	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/10/14 04:31	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/10/14 04:31	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/10/14 04:31	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/10/14 04:31	1
2-Hexanone	ND		5.0	1.2	ug/L			11/10/14 04:31	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/10/14 04:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/10/14 04:31	1
Acetone	ND		10	3.0	ug/L			11/10/14 04:31	1
Benzene	ND		1.0	0.41	ug/L			11/10/14 04:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/10/14 04:31	1
Bromoform	ND		1.0	0.26	ug/L			11/10/14 04:31	1
Bromomethane	ND		1.0	0.69	ug/L			11/10/14 04:31	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/10/14 04:31	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/10/14 04:31	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/10/14 04:31	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/10/14 04:31	1
Chloroethane	ND		1.0	0.32	ug/L			11/10/14 04:31	1
Chloroform	ND		1.0	0.34	ug/L			11/10/14 04:31	1
Chloromethane	ND		1.0	0.35	ug/L			11/10/14 04:31	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/10/14 04:31	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/10/14 04:31	1
Cyclohexane	ND		1.0	0.18	ug/L			11/10/14 04:31	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/10/14 04:31	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/10/14 04:31	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/10/14 04:31	1
Methyl acetate	ND		2.5	0.50	ug/L			11/10/14 04:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/10/14 04:31	1
Methylcyclohexane	ND	UJ	1.0	0.16	ug/L			11/10/14 04:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/10/14 04:31	1
Styrene	ND		1.0	0.73	ug/L			11/10/14 04:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/10/14 04:31	1
Toluene	ND		1.0	0.51	ug/L			11/10/14 04:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/10/14 04:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/10/14 04:31	1
Trichloroethene	ND		1.0	0.46	ug/L			11/10/14 04:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/10/14 04:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/10/14 04:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/10/14 04:31	1

Client Sample ID: MW-09S
Date Collected: 10/30/14 10:46
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-1
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Isopropyl alcohol	9.1	J	ug/L		6.97	67-63-0		11/10/14 04:31	1
Tentatively Identified Compound	None		ug/L					11/10/14 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 137		11/10/14 04:31	1
Toluene-d8 (Surr)	94		71 - 126		11/10/14 04:31	1
4-Bromofluorobenzene (Surr)	101		73 - 120		11/10/14 04:31	1

Client Sample ID: MW-10S
Date Collected: 10/30/14 09:43
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/10/14 04:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/10/14 04:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/10/14 04:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	UJ	1.0	0.31	ug/L			11/10/14 04:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/10/14 04:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/10/14 04:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/10/14 04:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/10/14 04:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/10/14 04:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/10/14 04:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/10/14 04:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/10/14 04:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/10/14 04:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/10/14 04:56	1
2-Hexanone	ND		5.0	1.2	ug/L			11/10/14 04:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/10/14 04:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/10/14 04:56	1
Acetone	ND		10	3.0	ug/L			11/10/14 04:56	1
Benzene	ND		1.0	0.41	ug/L			11/10/14 04:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/10/14 04:56	1
Bromoform	ND		1.0	0.26	ug/L			11/10/14 04:56	1
Bromomethane	ND		1.0	0.69	ug/L			11/10/14 04:56	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/10/14 04:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/10/14 04:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/10/14 04:56	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/10/14 04:56	1
Chloroethane	ND		1.0	0.32	ug/L			11/10/14 04:56	1
Chloroform	ND		1.0	0.34	ug/L			11/10/14 04:56	1
Chloromethane	ND		1.0	0.35	ug/L			11/10/14 04:56	1
cis-1,2-Dichloroethene	0.87	J	1.0	0.81	ug/L			11/10/14 04:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/10/14 04:56	1
Cyclohexane	ND		1.0	0.18	ug/L			11/10/14 04:56	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/10/14 04:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/10/14 04:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/10/14 04:56	1
Methyl acetate	ND		2.5	0.50	ug/L			11/10/14 04:56	1

Client Sample ID: MW-10S
Date Collected: 10/30/14 09:43
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/10/14 04:56	1
Methylcyclohexane	ND	UJ	1.0	0.16	ug/L			11/10/14 04:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/10/14 04:56	1
Styrene	ND		1.0	0.73	ug/L			11/10/14 04:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/10/14 04:56	1
Toluene	ND		1.0	0.51	ug/L			11/10/14 04:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/10/14 04:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/10/14 04:56	1
Trichloroethene	15		1.0	0.46	ug/L			11/10/14 04:56	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/10/14 04:56	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/10/14 04:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/10/14 04:56	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/10/14 04:56*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*		*11/10/14 04:56*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*		*11/10/14 04:56*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*11/10/14 04:56*	*1*

Client Sample ID: MW-11D
Date Collected: 10/30/14 12:29
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/10/14 05:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/10/14 05:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/10/14 05:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	UJ	1.0	0.31	ug/L			11/10/14 05:21	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/10/14 05:21	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/10/14 05:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/10/14 05:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/10/14 05:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/10/14 05:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/10/14 05:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/10/14 05:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/10/14 05:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/10/14 05:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/10/14 05:21	1
2-Hexanone	ND		5.0	1.2	ug/L			11/10/14 05:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/10/14 05:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/10/14 05:21	1
Acetone	ND		10	3.0	ug/L			11/10/14 05:21	1
Benzene	ND		1.0	0.41	ug/L			11/10/14 05:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/10/14 05:21	1
Bromoform	ND		1.0	0.26	ug/L			11/10/14 05:21	1
Bromomethane	ND		1.0	0.69	ug/L			11/10/14 05:21	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/10/14 05:21	1

Client Sample ID: MW-11D

Date Collected: 10/30/14 12:29
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/10/14 05:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/10/14 05:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/10/14 05:21	1
Chloroethane	ND		1.0	0.32	ug/L			11/10/14 05:21	1
Chloroform	ND		1.0	0.34	ug/L			11/10/14 05:21	1
Chloromethane	ND		1.0	0.35	ug/L			11/10/14 05:21	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/10/14 05:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/10/14 05:21	1
Cyclohexane	ND		1.0	0.18	ug/L			11/10/14 05:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/10/14 05:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/10/14 05:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/10/14 05:21	1
Methyl acetate	ND		2.5	0.50	ug/L			11/10/14 05:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/10/14 05:21	1
Methylcyclohexane	ND	UJ	1.0	0.16	ug/L			11/10/14 05:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/10/14 05:21	1
Styrene	ND		1.0	0.73	ug/L			11/10/14 05:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/10/14 05:21	1
Toluene	ND		1.0	0.51	ug/L			11/10/14 05:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/10/14 05:21	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/10/14 05:21	1
Trichloroethene	ND		1.0	0.46	ug/L			11/10/14 05:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/10/14 05:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/10/14 05:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/10/14 05:21	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/10/14 05:21*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*		*11/10/14 05:21*	*1*
Toluene-d8 (Surr)	*95*		*71 - 126*		*11/10/14 05:21*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*11/10/14 05:21*	*1*

Client Sample ID: FD-20141030

Date Collected: 10/30/14 00:00
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/10/14 05:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/10/14 05:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/10/14 05:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	UJ	1.0	0.31	ug/L			11/10/14 05:47	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/10/14 05:47	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/10/14 05:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/10/14 05:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/10/14 05:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/10/14 05:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/10/14 05:47	1

Client Sample ID: FD-20141030
Date Collected: 10/30/14 00:00
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/10/14 05:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/10/14 05:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/10/14 05:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/10/14 05:47	1
2-Hexanone	ND		5.0	1.2	ug/L			11/10/14 05:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/10/14 05:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/10/14 05:47	1
Acetone	ND		10	3.0	ug/L			11/10/14 05:47	1
Benzene	ND		1.0	0.41	ug/L			11/10/14 05:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/10/14 05:47	1
Bromoform	ND		1.0	0.26	ug/L			11/10/14 05:47	1
Bromomethane	ND		1.0	0.69	ug/L			11/10/14 05:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/10/14 05:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/10/14 05:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/10/14 05:47	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/10/14 05:47	1
Chloroethane	ND		1.0	0.32	ug/L			11/10/14 05:47	1
Chloroform	ND		1.0	0.34	ug/L			11/10/14 05:47	1
Chloromethane	ND		1.0	0.35	ug/L			11/10/14 05:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/10/14 05:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/10/14 05:47	1
Cyclohexane	ND		1.0	0.18	ug/L			11/10/14 05:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/10/14 05:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/10/14 05:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/10/14 05:47	1
Methyl acetate	ND		2.5	0.50	ug/L			11/10/14 05:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/10/14 05:47	1
Methylcyclohexane	ND	UJ	1.0	0.16	ug/L			11/10/14 05:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/10/14 05:47	1
Styrene	ND		1.0	0.73	ug/L			11/10/14 05:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/10/14 05:47	1
Toluene	ND		1.0	0.51	ug/L			11/10/14 05:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/10/14 05:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/10/14 05:47	1
Trichloroethene	ND		1.0	0.46	ug/L			11/10/14 05:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/10/14 05:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/10/14 05:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/10/14 05:47	1

Tentatively Identified Compound	*Est. Result*	*Qualifier*	*Unit*	*D*	*RT*	*CAS No.*	*Prepared*	*Analyzed*	*Dil Fac*
Tentatively Identified Compound	*None*		*ug/L*					*11/10/14 05:47*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*66 - 137*		*11/10/14 05:47*	*1*
Toluene-d8 (Surr)	*94*		*71 - 126*		*11/10/14 05:47*	*1*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*		*11/10/14 05:47*	*1*

Client: URS Corporation
Project/Site: Griffin Diebolt

TestAmerica Job ID: 480-70444-1

Client Sample ID: TRIP BLANK
Date Collected: 10/30/14 00:00
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/10/14 06:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/10/14 06:12	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/10/14 06:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	UJ	1.0	0.31	ug/L			11/10/14 06:12	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/10/14 06:12	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/10/14 06:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/10/14 06:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/10/14 06:12	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/10/14 06:12	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/10/14 06:12	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/10/14 06:12	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/10/14 06:12	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/10/14 06:12	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/10/14 06:12	1
2-Hexanone	ND		5.0	1.2	ug/L			11/10/14 06:12	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/10/14 06:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/10/14 06:12	1
Acetone	ND		10	3.0	ug/L			11/10/14 06:12	1
Benzene	ND		1.0	0.41	ug/L			11/10/14 06:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/10/14 06:12	1
Bromoform	ND		1.0	0.26	ug/L			11/10/14 06:12	1
Bromomethane	ND		1.0	0.69	ug/L			11/10/14 06:12	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/10/14 06:12	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/10/14 06:12	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/10/14 06:12	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/10/14 06:12	1
Chloroethane	ND		1.0	0.32	ug/L			11/10/14 06:12	1
Chloroform	ND		1.0	0.34	ug/L			11/10/14 06:12	1
Chloromethane	ND		1.0	0.35	ug/L			11/10/14 06:12	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/10/14 06:12	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/10/14 06:12	1
Cyclohexane	ND		1.0	0.18	ug/L			11/10/14 06:12	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/10/14 06:12	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/10/14 06:12	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/10/14 06:12	1
Methyl acetate	ND		2.5	0.50	ug/L			11/10/14 06:12	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/10/14 06:12	1
Methylcyclohexane	ND	UJ	1.0	0.16	ug/L			11/10/14 06:12	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/10/14 06:12	1
Styrene	ND		1.0	0.73	ug/L			11/10/14 06:12	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/10/14 06:12	1
Toluene	ND		1.0	0.51	ug/L			11/10/14 06:12	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/10/14 06:12	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/10/14 06:12	1
Trichloroethene	ND		1.0	0.46	ug/L			11/10/14 06:12	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/10/14 06:12	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/10/14 06:12	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/10/14 06:12	1

Client: URS Corporation
Project/Site: Griffin Diebolt

TestAmerica Job ID: 480-70444-1

Client Sample ID: TRIP BLANK
Date Collected: 10/30/14 00:00
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-5
Matrix: Water

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					11/10/14 06:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 137		11/10/14 06:12	1
Toluene-d8 (Surr)	95		71 - 126		11/10/14 06:12	1
4-Bromofluorobenzene (Surr)	104		73 - 120		11/10/14 06:12	1

Surrogate Summary

Client: URS Corporation
Project/Site: Griffin Diebolt

TestAmerica Job ID: 480-70444-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-70444-1	MW-09S	96	94	101
480-70444-2	MW-10S	100	96	104
480-70444-3	MW-11D	100	95	101
480-70444-4	FD-20141030	100	94	101
480-70444-5	TRIP BLANK	99	95	104
LCS 480-213021/7	Lab Control Sample	107	97	107
MB 480-213021/9	Method Blank	96	95	103

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-213021/9
Matrix: Water
Analysis Batch: 213021

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			11/10/14 01:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			11/10/14 01:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			11/10/14 01:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			11/10/14 01:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			11/10/14 01:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			11/10/14 01:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			11/10/14 01:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			11/10/14 01:42	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/10/14 01:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			11/10/14 01:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			11/10/14 01:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			11/10/14 01:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			11/10/14 01:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			11/10/14 01:42	1
2-Hexanone	ND		5.0	1.2	ug/L			11/10/14 01:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			11/10/14 01:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			11/10/14 01:42	1
Acetone	ND		10	3.0	ug/L			11/10/14 01:42	1
Benzene	ND		1.0	0.41	ug/L			11/10/14 01:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/10/14 01:42	1
Bromoform	ND		1.0	0.26	ug/L			11/10/14 01:42	1
Bromomethane	ND		1.0	0.69	ug/L			11/10/14 01:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/10/14 01:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/10/14 01:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/10/14 01:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/10/14 01:42	1
Chloroethane	ND		1.0	0.32	ug/L			11/10/14 01:42	1
Chloroform	ND		1.0	0.34	ug/L			11/10/14 01:42	1
Chloromethane	ND		1.0	0.35	ug/L			11/10/14 01:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/10/14 01:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			11/10/14 01:42	1
Cyclohexane	ND		1.0	0.18	ug/L			11/10/14 01:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/10/14 01:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/10/14 01:42	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/10/14 01:42	1
Methyl acetate	ND		2.5	0.50	ug/L			11/10/14 01:42	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/10/14 01:42	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/10/14 01:42	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/10/14 01:42	1
Styrene	ND		1.0	0.73	ug/L			11/10/14 01:42	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/10/14 01:42	1
Toluene	ND		1.0	0.51	ug/L			11/10/14 01:42	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/10/14 01:42	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			11/10/14 01:42	1
Trichloroethene	ND		1.0	0.46	ug/L			11/10/14 01:42	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			11/10/14 01:42	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/10/14 01:42	1
Xylenes, Total	ND		2.0	0.66	ug/L			11/10/14 01:42	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-213021/9
Matrix: Water
Analysis Batch: 213021

Client Sample ID: Method Blank
Prep Type: Total/NA

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	3.16	J	ug/L		18.55	91-57-6		11/10/14 01:42	1
Tentatively Identified Compound	None		ug/L					11/10/14 01:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 137		11/10/14 01:42	1
Toluene-d8 (Surr)	95		71 - 126		11/10/14 01:42	1
4-Bromofluorobenzene (Surr)	103		73 - 120		11/10/14 01:42	1

Lab Sample ID: LCS 480-213021/7
Matrix: Water
Analysis Batch: 213021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	24.5		ug/L		98	71 - 129
1,1-Dichloroethene	25.0	25.8		ug/L		103	58 - 121
1,2-Dichlorobenzene	25.0	22.8		ug/L		91	80 - 124
1,2-Dichloroethane	25.0	22.4		ug/L		90	75 - 127
Benzene	25.0	24.7		ug/L		99	71 - 124
Chlorobenzene	25.0	22.9		ug/L		91	72 - 120
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	74 - 124
Ethylbenzene	25.0	24.3		ug/L		97	77 - 123
Methyl tert-butyl ether	25.0	27.3		ug/L		109	64 - 127
Tetrachloroethene	25.0	24.3		ug/L		97	74 - 122
Toluene	25.0	23.7		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	73 - 127
Trichloroethene	25.0	25.3		ug/L		101	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		66 - 137
Toluene-d8 (Surr)	97		71 - 126
4-Bromofluorobenzene (Surr)	107		73 - 120

GC/MS VOA

Analysis Batch: 213021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-70444-1	MW-09S	Total/NA	Water	8260C	
480-70444-2	MW-10S	Total/NA	Water	8260C	
480-70444-3	MW-11D	Total/NA	Water	8260C	
480-70444-4	FD-20141030	Total/NA	Water	8260C	
480-70444-5	TRIP BLANK	Total/NA	Water	8260C	
LCS 480-213021/7	Lab Control Sample	Total/NA	Water	8260C	
MB 480-213021/9	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: URS Corporation
Project/Site: Griffin Diebolt

TestAmerica Job ID: 480-70444-1

Client Sample ID: MW-09S

Date Collected: 10/30/14 10:46
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	213021	11/10/14 04:31	LCH	TAL BUF

Client Sample ID: MW-10S

Date Collected: 10/30/14 09:43
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	213021	11/10/14 04:56	LCH	TAL BUF

Client Sample ID: MW-11D

Date Collected: 10/30/14 12:29
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	213021	11/10/14 05:21	LCH	TAL BUF

Client Sample ID: FD-20141030

Date Collected: 10/30/14 00:00
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	213021	11/10/14 05:47	LCH	TAL BUF

Client Sample ID: TRIP BLANK

Date Collected: 10/30/14 00:00
Date Received: 10/30/14 14:53

Lab Sample ID: 480-70444-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	213021	11/10/14 06:12	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: URS Corporation
Project/Site: Griffin Diebolt

TestAmerica Job ID: 480-70444-1

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-15

The following analytes are included in this report, but are not certified under this certification:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	Isopropyl alcohol

Method Summary

Client: URS Corporation
Project/Site: Griffin Diebolt

TestAmerica Job ID: 480-70444-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: URS Corporation
Project/Site: Griffin Diebolt

TestAmerica Job ID: 480-70444-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-70444-1	MW-09S	Water	10/30/14 10:46	10/30/14 14:53
480-70444-2	MW-10S	Water	10/30/14 09:43	10/30/14 14:53
480-70444-3	MW-11D	Water	10/30/14 12:29	10/30/14 14:53
480-70444-4	FD-20141030	Water	10/30/14 00:00	10/30/14 14:53
480-70444-5	TRIP BLANK	Water	10/30/14 00:00	10/30/14 14:53

CHAIN OF CUSTODY RECORD

URS

480-70444 Chain of Custody

PROJECT NO. 13818063.20000

SITE NAME Griffin Digbold

SAMPLERS (PRINT/SIGNATURE) Kevin J. McGovern / [signature]

DELIVERY SERVICE: Client Drop-off AIRBILL NO.:

Test America

COOLER 1 of 1

PAGE 1 of 1

BOTTLE TYPE AND PRESERVATIVE: TCL VOCs 8260 C+TICs — 40ml VOA Vials w/HCl

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40ml VOA Vials w/HCl	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
MW-09S	10/30/14	10:46	Grab	MW-09S	GW	3	3		N1			
MW-10S	↓	09:43	↓	MW-10S	↓	↓	↓		↓			
MW-11D	↓	12:29	↓	MW-11D	↓	↓	↓		↓			
	↓	—	↓	FD-20141030	↓	↓	↓		FR1			
—	—	—	—	Trip Blank	—	1	1		TB1			

MATRIX CODES
AA - AMBIENT AIR, SE - SEDIMENT, SH - HAZARDOUS SOLID WASTE, SL - SLUDGE, WP - DRINKING WATER, WW - WASTE WATER, WG - GROUND WATER, SO - SOIL, DC - DRILL CUTTINGS, WL - LEACHATE, GS - SOIL GAS, WC - DRILLING WATER, WO - OCEAN WATER, WS - SURFACE WATER, WQ - WATER FIELD QC, LH - HAZARDOUS LIQUID WASTE, LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK, SD# - MATRIX SPIKE DUPLICATE, RB# - RINSE BLANK, FR# - FIELD REPLICATE, N# - NORMAL ENVIRONMENTAL SAMPLE, MS# - MATRIX SPIKE (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	10/30/14	14:53	[signature]	10/30/14	1453
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
Call George Kisluk
@ 716-923-1321

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

4.6 #1

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 480-70444-1

Login Number: 70444
List Number: 1
Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	URS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	