

January 12, 2015

Geotechnical

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Mr. George F. Momberger, P.E. New York State Department of Environmental Conservation Region 9

270 Michigan Avenue Buffalo, New York 14203

Subject: Annual Summary Report for 2014 Groundwater

Monitored Natural Attenuation Program for

312 Fair Oak Street Little Valley, New York

Dear Mr. Momberger:

On behalf of Bush Industries, Inc., GEI Consultants, Inc., P.C. is pleased to submit three copies of the above-captioned report. The work was conducted pursuant to and in accordance with the Amended and Supplemental Order (File No.: 96-07 R9-4314-96-06) agreed to between Bush Industries and the New York State Department of Environmental Conservation (NYSDEC). An electronic copy of the report has been sent via e-mail. Please let me know if you would like me to forward the electronic copy to EPA (as in past years).

If you have any questions concerning this report, please contact the undersigned at (716) 204-7158 or via e-mail at kmcintosh@geiconsultants.com.

Sincerely yours,

GEI CONSULTANTS, INC., P.C.

Kelly R. McIntosh, P.E., Ph.D.

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Enclosure

cc: Gregory Sutton, P.E., NYSDEC (e-copy only)

Morgan Graham, Phillips, Lytle

Maureen Brady, NYSDEC (w/o enclosure)

Neil Frederick, Bush Industries

Annual Summary Report for 2014 Groundwater Monitored Natural Attenuation Program

Bush Industries, Inc. 312 Fair Oak Street Little Valley, New York

Submitted to:

Bush Industries, Inc. Jamestown, New York

Submitted by:

GEI Consultants, Inc., P.C. 90B John Muir Drive, Suite 104 Amherst, NY 14228

January 2015

Project 128910

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Executive Summary

GEI Consultants, Inc., P.C. (GEI) has been retained by Bush Industries, Inc. (Bush Industries) to conduct the 2014 Monitored Natural Attenuation (MNA) Program for groundwater at the property located at 312 Fair Oak Street, Little Valley, New York. The work was conducted pursuant to and in accordance with the Amended and Supplemental Order (File No.: 96-07 R9-4314-96-06) agreed to between Bush Industries and the New York State Department of Environmental Conservation (NYSDEC).

The subject property is located within the Little Valley Superfund Site (LVSS). The LVSS is currently being addressed by the United States Environmental Protection Agency (USEPA). The Record of Decision (ROD) for the LVSS specifies MNA as the remedy for trichloroethene (TCE) contaminated groundwater measured throughout the LVSS. The USEPA MNA remedy includes groundwater sampling on properties located throughout the LVSS including 312 Fair Oak Street. Bush Industries has agreed to conduct the MNA sampling on this property in accordance with the Amended and Supplemental Order. This report presents the validated results of the annual MNA sampling event conducted on the property by GEI in September 2014.

The results of the 2014 MNA sampling event for the property indicate that natural attenuation processes are occurring. The apparent decreasing concentration trends and presence of daughter products and methane in groundwater samples reflect the reductive dechlorination occurring in groundwater at the property.

1. Introduction

1.1 Background and Site Description

GEI Consultants, Inc., P.C. (GEI) has been retained by Bush Industries, Inc. (Bush Industries) to conduct the 2014 Monitored Natural Attenuation (MNA) Program for groundwater at the property located at 312 Fair Oak Street, Little Valley, New York. The work was conducted pursuant to and in accordance with the Amended and Supplemental Order (File No.: 96-07 R9-4314-96-06) agreed to between Bush Industries and the New York State Department of Environmental Conservation (NYSDEC).

The subject property is located within the Little Valley Superfund Site (LVSS). The LVSS is currently being addressed by the United States Environmental Protection Agency (USEPA). The Record of Decision (ROD) for the LVSS specifies MNA as the remedy for TCE contaminated groundwater measured throughout the LVSS.

A topographic map of the Site and surrounding area prepared from a 7.5 minute series U.S. Geological Survey map is presented in Figure 1. The Site is situated on a 9.4 acre lot, and contains three contiguous buildings (see Figure 2). The USEPA MNA remedy includes groundwater sampling on properties located throughout the LVSS, including the property at 312 Fair Oak Street. Bush Industries has agreed to conduct the MNA sampling on this property in accordance with the Amended and Supplemental Order.

As NYSDEC was notified by letter dated September 15, 2008, Bush Industries entered into a contract to sell its land and improvements at 312 Fair Oak Street, Little Valley, N.Y. That transaction was completed on November 12, 2008. Bush Industries retained all rights-of-entry and authorization for Bush Industries (and NYSDEC) to continue to perform its obligations under the Amended and Supplemental Order. Also, deed restrictions have been placed upon the property prohibiting the use of groundwater. The current owner of the property is H2K Ventures, with addresses of 297 Howard Avenue, Jamestown, N.Y., and 312 Fair Oak Street, Little Valley, N.Y.

1.2 Previous Site Investigations

Bush Industries has conducted an extensive investigation of groundwater conditions at the 312 Fair Oak Street Site in concert with NYSDEC. Results are documented in the report entitled Groundwater Evaluation Report, prepared by Conestoga-Rovers & Associates (CRA) and dated February 21, 2000. The findings presented in the Groundwater Evaluation Report are summarized as follows:

- 1. The highest concentrations of TCE and its degradation products remain in the interior of the Site. There is a residual low level presence of TCE and its degradation products in the interior of the Site with concentrations in groundwater dropping precipitously along the downgradient flow path.
- 2. Concentrations of TCE at the downgradient perimeter of the Site are approximately equal to or below the New York State Groundwater criterion.
- 3. This distribution trend (rapidly declining concentrations with distance from the interior of the Site) indicates that natural attenuation processes occur limiting constituent migration and the Site does not pose a significant threat to downgradient groundwater quality.

The Groundwater Evaluation Report was approved by NYSDEC in March 2000. In May 2000, Bush Industries submitted the Remediation Report prepared by Geomatrix Consultants. The Remediation Report recommended implementation of an annual MNA sampling program at the Site. That Remediation Report was approved by NYSDEC in July 2007, along with EPA's concurrence.

1.3 MNA Program Objectives

The objectives of the natural attenuation monitoring are to:

- 1. Perform annual monitored natural attenuation (MNA) sampling events
- 2. Evaluate historic and new analytical data to monitor natural attenuation at the Site

2. Work Performed

2.1 MNA Scope of Work

The MNA monitoring work to be performed at the 312 Fair Oak Street Site is specified in the following documents:

Final Remedial Action Work Plan for the Little Valley Superfund Site Contract Number:68-W-98-214
Prepared by Tetra Tech EC, Inc.
Dated October 2006

Quality Assurance Project Plan Addendum for the Little Valley Superfund Site Contract Number:68-W-98-214
Prepared by Tetra Tech EC, Inc.
Dated September 2006

Work Plan for Natural Attenuation Monitoring, Bush Industries, Inc.
Prepared for Bush Industries, Inc.
Prepared by Geomatrix Consultants
Dated July 2007

The latter document prepared by Geomatrix governs the specific sampling program for the Site and is referred to herein as the Work Plan. In order to facilitate direct comparison of the Site analytical results with results from other wells within the LVSS sampled by USEPA, the sampling methods, analytical methods and QA/QC protocols specified by USEPA for the LVSS remediation are utilized for the Bush Industries MNA monitoring and are incorporated into the Work Plan.

In accordance with the Work Plan, the MNA Program for groundwater at the 312 Fair Oak Street Site includes the following:

- 1. Annual groundwater sampling events for the following wells: MW-D1, MW-D2, MW-2, MW-3, MW-5 and MW-6. Monitoring well locations are shown on Figure 2.
- 2. Sampling of wells using low flow methodology in accordance with the Work Plan
- 3. Analyses of samples for the following MNA analyses: Volatile Organic Chemicals (VOCs), alkalinity, sulfate, sulfide, nitrate, chloride, total organic carbon, ferrous iron, ethane, ethene and methane. The analytical program and methodology is summarized in Table 1 (except deviations as noted in Section 2.2, below).

- 4. Data validation.
- 5. Data evaluation and reporting.

These tasks are described in detail in the Work Plan.

2.2 2014 MNA Groundwater Sampling Event

GEI personnel conducted the annual MNA sampling event for the Site on September 23, 2014. Water level measurement, equipment decontamination, and low flow purge methods were in accordance with the Work Plan. Purge records are included in Table 2.

Deviations from the Work Plan during the 2014 sampling event are listed below:

- Monitoring wells MW-D1 contained insufficient water column for low flow purging with a submersible pump. The sample was purged to dryness with a dedicated disposable bailer and sampled from same.
- With the prior concurrence of NYSDEC (by e-mail from Linda Ross, NYSDEC, dated September 18, 2008), VOCs were analyzed using SW-846 Third Edition Methods with USEPA Contract Laboratory Program (CLP) deliverables.

Groundwater samples were analyzed in accordance with Table 1 (except as noted above) by Test America Buffalo Laboratory.

The data validation and usability are discussed in Section 3.1. Results are presented in Section 3.2.

3. Sampling Event Results

3.1 Data Validation and Usability

The analytical results and data packages for the September 2014 sampling event reported by the laboratory were validated by MECX, LP of Aurora, Colorado. Data validation was performed in accordance with the Work Plan based on an evaluation of method specific QC information (holding times, calibration records, laboratory and field blanks, duplicate precision, and surrogate and matrix spike recoveries), the most current version of the USEPA Region 2 Data Validation SOPs (www.epa.gov/region02/desa/hsw/sops.htm), the most current version of the EPA National Functional Guidelines (www.epa.gov/superfund/programs/clp/guidance.htm) and the best professional judgment of the validator.

The Data Validation Report is included in its entirety in Appendix A. Results were deemed usable with appropriate qualifiers added (see Appendix A). No significant data quality issues were identified.

3.2 Groundwater Results

3.2.1 Hydraulic Head Measurements

Groundwater hydraulic head measurements were obtained on September 23, 2014 and are presented in Table 3. Figure 3 presents a water table elevation map prepared from these measurements.

Groundwater flow is indicated to be toward the northeast and the flow direction is consistent with prior measurement events.

3.2.2 Analytical Results

The validated analytical results are summarized in Table 4. Table 5 presents comparison criteria for detected constituents in groundwater used by USEPA for the LVSS. TCE and/or its reductive dechlorination products (cis-1,2-dichloroethene and vinyl chloride) were detected at or above the comparison criteria in 3 of the 6 wells sampled.

The highest TCE concentration was measured in the sample from well MW-D2 (reported concentration of 100 ug/L). Well MW-D2 is located in the central portion of the property. The reductive dechlorination product cis-1,2-dichloroethene was present in samples from 3 wells (24 ug/L in MW-2, 13 ug/L in MW-D2 and 6.5 ug/L in MW-6). The reductive dechlorination product vinyl chloride was detected in one well (1.0 ug/L in MW-2).

No VOCs were detected in the sample from monitoring well MW-5.

Figure 4 presents an isoconcentration contour map for total VOCs measured during September 2014.

MNA parameter results are discussed in the following section.

4. Contaminant Trends and Progress of MNA

4.1 Contaminant Trends

Table 6 presents historical sampling results for the six wells in the Bush Industries MNA sampling program. Figures 5 through 10 present time versus concentration plots depicting the historical trend of TCE and daughter products in the Bush Industries MNA monitoring wells. As shown on these figures, all 2014 sampling event results for TCE and its reductive dechlorination products are within the general ranges of historical values. Apparent downward trends in concentrations of TCE and/or degradation products are evident in wells MW-2 (Figure 5), MW-3 (Figure 6), MW-6 (Figure 8), and MW-D1 (Figure 9).

4.2 Reductive Dechlorination

The data obtained during the September 2014 groundwater sampling event were reviewed to assess the potential for degradation of VOCs at the Site via reductive dechlorination. EPA's Technical Protocol (EPA, 1998) was used as a basis for much of the following assessment.

Oxygen

Anaerobic bacteria generally cannot function at dissolved oxygen (DO) concentrations above 0.5 mg/L, and reductive dechlorination will not occur. As indicated in Table 2, stable field measured DO concentrations at the Site ranged from less than 1 mg/L to 5.58 mg/L. The lowest DO concentrations were measured in wells MW-2 and MW-6. Reductive dechlorination products were detected in both these wells.

Nitrate

After dissolved oxygen has been depleted, nitrate may be used as an electron acceptor for the biodegradation of organic compounds via denitrification. Areas of depressed nitrate concentrations within a groundwater plume may indicate biodegradation via nitrate reduction, while the presence of nitrate in groundwater can indicate a fairly aerobic environment. Nitrate concentrations in the contaminant plume should be less than 1 mg/L for reductive dechlorination to occur. Nitrate concentrations were below 1 mg/L were measured in all wells sampled except for well MW-D1.

Ferrous Iron

After nitrate, iron (III) may be used as an electron acceptor during anaerobic biodegradation, reducing the analyte to iron (II). Ferrous iron [iron (II)] concentrations were not detected above 0.1 ug/L in any wells.

Sulfate/Sulfide

After dissolved oxygen and nitrate depletion, sulfate may be used as an electron acceptor for anaerobic biodegradation (EPA, 1998). This "sulfate reduction" process produces sulfide, and concentrations of sulfide greater than 1 mg/L indicate a possible reductive pathway. Sulfate concentrations ranged up to 16 mg/L. Sulfide was not detected in any well during the 2014 event.

Methane/Ethane/Ethene

EPA, 1998 states that methanogenesis (the reduction of carbon dioxide to methane) generally occurs after oxygen, nitrate, and sulfate have been depleted. Therefore, the presence of methane in groundwater is indicative of strongly reducing conditions. Samples from two wells, MW-2 and MW-6, contained detectable concentrations of methane in the 2014 event (0.035 mg/L and 0.026 mg/L, respectively). Reductive dechlorination products were detected in both of these wells.

Alkalinity

Zones of microbial activity are typically identified by an increase in alkalinity, resulting from increased concentrations of carbon dioxide produced by the metabolism of microorganisms. According to EPA, 1998, a two-fold increase in alkalinity values over background numbers suggests biodegradation may be occurring. Historically, the minimum value for alkalinity has occurred in well MW-5, which is considered upgradient of the TCE presence at the Site (historic range from approximately 60 mg/L to 70 mg/L as shown on Table 6). Alkalinity was measured at 67 mg/L in the 2014 sample from MW-5, and this value is used as "background" for comparison. The sample from the monitoring well MW-2 had alkalinity levels greater than twice the background concentration, as did the furthest downgradient well (MW-3).

Oxidation-Reduction Potential

The oxidation-reduction potential of groundwater is a relative measure of electron activity, and can influence rates of biodegradation. At less than 50 millivolts (mV), the reductive pathway is possible, and becomes more likely below -100 mV (EPA, 1998). Negative redox potentials were not measured in any of the wells sampled during the 2014 event.

pH and Temperature

Metabolic activity of bacteria is affected by the pH and temperature of the groundwater. The optimal values for these parameters for reductive biodegradation is a pH between 6 and 8 and a temperature greater than 20°C. All of the wells had pHs in this optimum range. Stable values of water temperature during the 2014 sampling event were between 10.1°C and 13.8°C.

Chloride

Chloride is released as a breakdown product during the biodegradation of chlorinated compounds. Chloride ions do not typically enter into oxidation-reduction reactions, form no

important solute complexes, do not form salts of low solubility, are not significantly adsorbed on mineral surfaces, and play few vital biochemical roles (EPA, 1998). As a result, significant increases in chloride concentrations relative to background (i.e., two times) may indicate the biodegradation of chlorinated compounds. Road salting also serves as a common, localized source of chloride to groundwater systems. The result from well MW-5 (9.1 mg/L), which as indicated above is considered upgradient of the TCE presence at the Site, was used as "background" for comparison of the chloride values. The well sampled downgradient from MW-5 well on the property (MW-2) had a chloride concentration of 16 mg/L. The furthest downgradient well, MW-3 had a chloride concentration of 19 mg/L.

Total Organic Carbon

The presence of natural or anthropogenic organic carbon can facilitate dechlorination, by acting as a carbon and energy source for aerobic microorganisms (which during aerobic respiration decrease dissolved oxygen levels, creating a reducing environment and increasing the potential for anaerobic bacteria to function). A TOC concentration of 20 mg/L is most favorable to dechlorination. TOC concentrations ranged from not detected in well MW-3 to 2.2 mg/L in well MW-6 for the 2014 event.

Daughter Products

Transformation of TCE via reductive dechlorination produces daughter products including 1,1-dichloroethene, 1,2-dichloroethene (cis- and/or trans-), and vinyl chloride. As described in Section 3.2, these daughter products were detected, suggesting that reductive dechlorination has occurred at the property.

4.3 Progress of MNA at the Site

The apparent decreasing concentration trends and the presence of daughter products and methane in groundwater samples reflect the reductive dechlorination occurring in groundwater at the property. Additional annual sampling data will be used to further assess any long term trends in the MNA monitoring wells.

The next annual report will be due 90 days from completion of the 2015 yearly groundwater sampling, per the Work Plan.

Tables		

TABLE 1

SAMPLE COLLECTION AND ANALYSIS PROTOCOLS
312 Fair Oak Street, Little Valley, New York

Sample Type	Matrix	Sampling Device	No. of Samples ⁽¹⁾⁽²⁾	Parameter	Sample Container ⁽³⁾⁽⁴⁾	Sample Preservation	Analytical Method ⁽⁵⁾	PQL	Holding Time ⁽⁶⁾
Groundwater	Water	Positive Displacement Submersible Pump	6	pH; temperature; specific conductivity DO; ORP; turbidity [Field Screening]	NA	NA	Direct Field Measurement Following SOP	NA	Analyze Immediately
			6	Low Concentration TCL Volatile Organic Compounds [CLP Lab]	(4) 40 mL VOA vials w/Teflon lined septum	1:1 HCl to pH<2; Cool to 4°C	SOM01.1	Compound specific (0.5 - 20 μg/L)	10 days
			6	Total Organic Carbon [DESA Lab]	(1) L amber glass	H ₂ SO ₄ to pH<2; Cool to 4°C	SW-846 Method 9060	1 mg/L	28 days*
			6	Alkalinity [DESA Lab]	(1) 1 L polyethelyene	Cool to 4°C	MCAWW Method 310.1	1 mg/L	14 days*
			6	Sulfate [DESA Lab]	(1) 1 L polyethelyene	Cool to 4°C	EPA 300.1	1 mg/L	28 days*
			6	Sulfide [DESA Lab]	(1) 1 L polyethelyene	NaOH to pH >12; 4 drops of zinc acetate per liter; Cool to 4°C	MCAWW Method 376.1	1 mg/L	7 days*
			6	Nitrate [DESA Lab]	(1) 1 L polyethelyene	Cool to 4°C	EPA 300.1	0.05 mg/L	48 hours*
			6	Chloride [DESA Lab]	(1) 1 L polyethelyene	Cool to 4°C	EPA 300.1	1 mg/L	28 days*
			6	Ferrous Iron [Sub Lab]	(1) 100 mL amber glass	2mL HCI; Cool to 4°C	Std. Methods Method 3500Fe-D	10 μg/L	24 hours*
			6	Ethane [Sub Lab]	(5) 40-mL VOA vials w/Teflon lined septum	Cool to 4°C	GC/FID (SW-846 Method 3810)	5 μg/L	7 days*
			6	Ethene [Sub Lab]	(5) 40-mL VOA vials w/Teflon lined septum	Cool to 4°C	GC/FID (SW-846 Method 3810)	5 μg/L	7 days*
			6	Methane [Sub Lab]	(5) 40-mL VOA vials w/Teflon lined septum	Cool to 4°C	GC/FID (SW-846 Method 3810)	5 μg/L	7 days*

C:\Users\kmcintosh\Documents\Bush Industries\2012 MNA\Tables\Table 1

TABLE 1 SAMPLE COLLECTION AND ANALYSIS PROTOCOLS 312 Fair Oak Street, Little Valley, New York

Sample Type	Matrix	Sampling Device	No. of Samples ⁽¹⁾⁽²⁾	Parameter	Sample Container ⁽³⁾⁽⁴⁾	Sample Preservation	Analytical Method (5)	PQL	Holding Time ⁽⁶⁾
Field Blank	Water	Collected Rinsate Passed Over/Through Sampling Equipment	1	Low Concentration TCL Volatile Organic Compounds [CLP Lab]	(4) 40-mL VOA vials w/Teflon lined septum	1:1 HCl to pH<2; Cool to 4°C	SOM01.1	Compound specific (0.5 - 20 µg/L)	10 days
Trip Blank	Water	Direct Fill of Sample Bottles	1	Low Concentration TCL Volatile Organic Compounds [CLP Lab]	(4) 40-mL VOA vials w/Teflon lined septum	1:1 HCl to pH<2; Cool to 4°C	SOM01.1	Compound specific (0.5 - 20 µg/L)	10 days
			6	Ethane [Sub Lab]	(5) 40-mL VOA vials w/Teflon lined septum	Cool to 4°C	GC/FID (SW-846 Method 3810)	5 μg/L	7 days*
			6	Ethene [Sub Lab]	(5) 40-mL VOA vials w/Teflon lined septum	Cool to 4°C	GC/FID (SW-846 Method 3810)	5 μg/L	7 days*
			6	Methane [Sub Lab]	(5) 40-mL VOA vials w/Teflon lined septum	Cool to 4°C	GC/FID (SW-846 Method 3810)	5 μg/L	7 days*

NOTES:

- 1. The number in parentheses in the "No. of Samples" column denotes the number of duplicate samples.
- 2. The number of field, trip and DI water blanks is estimated based on the approximate number of days in the field for each type of sampling during the MNA Program events.
- 3. The number in parentheses in the "Sample Container" column denotes the number of containers needed. Additional volume must be sent for laboratory QA/QC sample analyses.
- 4. All bottles will comply with OSWER Directive 9240.0-05A: "Specifications and Guidance for Obtaining Contaminant-Free Sample Containers", EPA 540/R-93/051, December 1992.
- Method References:

SOM01.1 = USEPA Contract Laboratory Program Statement of Work for Multi-Media, Multi-Concentration Organics (May 2005 or latest revision).

MCAWW = Methods for Chemical Analysis of Water and Wastes, March 1983.

Std. Methods = Standard Methods for the Examination of Water and Wastewater, 20th Edition (January 2000).

SW-846 = Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (November 1986, revised through November 2000 via Updates I through IVB).

EPA300.1 = Determination of Inorganic Anions in Drinking Water by Ion Chromatography, Revision I (27 April 1999).

EPA/600/R-98128 = Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater (September 1998).

6. All holding times listed are from Verified Time of Sample Receipt (VTSR) unless noted otherwise (* denotes from time of sample collection).

7. Acronyms/Abbreviations used:

CLP = Contract Laboratory Program DESA = Division of Environmental Science and Assessment

DO = Dissolved Oxygen ORP = Oxidation-Reduction Potential PQL = Practical Quantitation Limit Sub Lab = Non-RAS Subcontract Laboratory

TCL = Target Compound List VOA = Voalitle Organic Analysis

C:\Users\kmcintosh\Documents\Bush Industries\2012 MNA\Tables\Table 1

TABLE 2 MONITORING WELL PURGE SUMMARY 312 Fair Oak Street Little Valley, New York

Time	Cumulative Volume (L)	Temperature (degrees C)	pН	Specific Conductance (us/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)
MW-2						
14:55	Begin Purge					
15:00	0.6	12.2	7.02	0.443	0.49	289
15:05	1.2	12.6	7.04	0.398	0.38	234
15:10	1.8	13.1	7.03	0.442	0.39	206
15:15	2.4	12.6	7.04	0.447	0.39	187
15:20	3.0	12.5	7.05	0.445	0.37	182
15:25	3.6	12.8	7.06	0.442	0.36	176
MW-3						
8:58	Begin Purge					
9:00	0.25	11.2	7.19	0.426	6.42	325
9:05	1.0	11.1	6.85	0.398	5.51	331
9:10	1.3	11.4	6.86	0.398	5.65	325
9:20	2.0	11.4	6.87	0.397	5.51	293
9:25	2.8	11.4	6.87	0.397	5.54	281
9:30	3.5	11.3	6.87	0.397	5.58	268
MW-5						
14:00	Begin Purge					
14:05	0.75	13.9	6.28	0.173	0.82	310
14:10	1.35	13.9	6.28	0.171	0.69	304
14:15	2.0	14.0	6.28	0.171	0.63	302
14:20	2.7	13.8	6.27	0.171	0.64	302
14:25	3.4	13.7	6.28	0.171	0.67	303
14:30	4.1	13.8	6.27	0.171	0.66	304
MW-6						
12:35	Begin Purge					
12:40	0.8	13.8	6.29	0.189	1.85	246
12:45	1.6	13.8	6.28	0.186	1.75	252
12:50	2.4	13.8	6.26	0.183	1.72	256
12:55	3.2	13.8	6.25	0.187	1.12	241
13:00	4.0	13.8	6.24	0.194	0.82	232
13:05	4.8	13.8	6.23	0.197	0.74	220
13:10	5.6	13.8	6.23	0.198	0.59	214
<i>MW-D1</i> In	sufficient Water	Column for Purg	e: Bail to di	ryness (0.75 liter) th	en sample	
MW-D2						
11:15	Begin Purge					
11:20	0.6	10.1	7.26	0.323	3.76	325
11:25	1.2	10.4	7.22	0.418	3.04	314
11:30	1.8	10.2	7.20	0.436	2.76	303
11:35	2.4	10.2	7.17	0.441	2.59	298
11:40	3.2	10.1	7.15	0.432	2.44	293
11:45	4.0	10.1	7.14	0.422	2.28	286
11:50	4.8	10.1	7.14	0.417	2.18	282
11:55	5.6	10.1	7.13	0.413	2.18	277
12:00	6.4	10.1	7.13	0.408	2.15	275

TABLE 3 GROUNDWATER ELEVATION SUMMARY 312 Fair Oak Street Little Valley, New York

Well ID	Measuring Point Elevation (fasl)	DTW (ft.) 9/23/14	Groundwater Elevation (fasl)
MW-2	1590.18	37.36	1552.82
MW-3	1591.37	51.42	1539.95
MW-5	1590.44	6.70	1583.74
MW-6	1584.99	3.33	1581.66
MW-D1	1590.31	49.28	1541.03
MW-D2	1584.17	37.65	1546.52

Notes:

DTW- depth to water fasl- feet above sea level

TABLE 4 VALIDATED GROUNDWATER ANALYTICAL SUMMARY 312 Fair Oak Street Little Valley, New York

Sample ID:	LVRA08-MNAGW- MW2	LVRA08-MNAGW- MW3	LVRA08-MNAGW- MW5	LVRA08-MNAGW- MW6	LVRA08- MNAGW-MWD1	LVRA08- MNAGW-MWD2	LVRA08- MNAGW- DUP ^(I)
Date Sampled:	09/23/14	09/23/14	09/23/14	09/23/14	09/23/14	09/23/14	09/23/14
Volatile Organic Compounds (ug/L)							
1,1,1-Trichloroethane	1U	1U	1U	1U	1U	1U	1U
1,1,2,2-Tetrachloroethane	1U	1U	1U	1U	1U	1U	1U
1,1,2-Trichloro-1,2,2,-trifluoroethane	1U	1U	1U	1U	1U	1U	1U
1,1,2-Trichloroethane	1U	1U	1U	1U	1U	1U	1U
1,1-Dichloroethane	1U	1U	1U	1U	1U	1U	1U
1,1-Dichloroethene	0.4J	1U	1U	1U	1U	1U	1U
1,2-Dibromo-3-Chloropropane	1U	1U	1U	1U	1U	1U	1U
1,2-Dibromoethane	1U	1U	1U	1U	1U	1U	1U
1,2-Dichlorobenzene	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloroethane	1U	1U	1U	1U	1U	1U	1U
1,2,4-Trichlorobenzene	1U	1U	1U	1U	1U	1U	1U
1,2-Dichloropropane	1U	1U	1U	1U	1U	1U	1U
1,4-Dichlorobenzene	1U	1U	1U	1U	1U	1U	1U
2-Hexanone	5U	5U	5U	5U	5U	5U	5U
2-Butanone	10U	10U	10U	10U	10U	10U	10U
4-Methyl-2-pentanone	5U	5U	5U	5U	5U	5U	5U
Acetone	10U	10U	10U	10U	10U	10U	10U
Benzene	1U	1U	1U	1U	1U	1U	1U
1.3-Dichlorobenzene	1U	1U	1U	1U	1U	1U	1U
Bromodichloromethane	1U	1U	1U	1U	1U	1U	1U
Bromoform	1U	1U	1U	1U	1U	1U	1U
Bromomethane	1U	1U	1U	1U	1U	1U	1U
Carbon Disulfide	1U	1U	1U	1U	1U	1U	1U
Carbon Tetrachloride	1U	1U	1U	1U	1U	1U	1U
Chlorobenzene	1U	1U	1U	1U	1U	1U	1U
Dibromochloromethane	1U	1U	1U	1U	1U	1U	1U
Chloroethane	1U	1U	1U	1U	1U	1U	1U
Chloroform	1U	1U	1U	1U	1U	1U	1U
Chloromethane	1U	1U	1U	1U	1U	1U	1U
cis-1,2-Dichloroethene	24	1U	1U	7	1U	13	13
cis-1,3-Dichloropropene	1U	1U	1U	1U	1U	1U	1U
Ethylbenzene	1U	1U	1U	1U	1U	1U	1U
Methylene Chloride	1U	1U	1U	1U	1U	1U	1U
Styrene	1U	1U	1U	1U	1U	1U	1U
Tetrachloroethene	1U	1U	1U	1U	1U	1U	1U
Toluene	1U	1U	1U	1U	1U	1U	1U
trans-1,2,-Dichloroethene	1U	1U	1U	1U	1U	1U	1U
trans-1,3-Dichloropropene	1U	1U	1U	1U	1U	1U	1U
Trichloroethene	42	2.2	1U	0,58J	3.5	100	95
Trichlorofluoromethane	1U	1U	1U	1U	1U	1U	1U
Vinyl Chloride	1.0	1U	1U	1U	1U	1U	1U
Total Xylenes	2U	2U	2U	2U	2U	2U	2U
Cyclohexane	1U	1U	1U	1U	1U	1U	1U
Dichlorodifluoromethane	1U	1U	1U	1U	1U	1U	1U
Isopropylbenzene	1U	1U	1U	1U	1U	1U	1U
Methyl acetate	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U	2.5U
Methyl-tert-butyl ether	2.30 1U	2.50 1U	2.30 1U	2.3U 1U	2.30 1U	2.3U 1U	2.3U 1U
Methylcyclohexane	1U	1U	1U	1U	1U	1U	1U
ivicuiyicycionexane	1 U	10	10	10	10	10	10

Monitored Natural Attenuation Para	meters (mg/L)						
Chloride	16	19.0	9.1	7.6	14	19	19
Ethane	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U	0.0075 U
Ethene	0.007U	0.007 U					
Ferrous Iron	0.075UJ	0.075UJ	0.075UJ	0.075UJ	0.075UJ	0.075UJ	R
Methane	0.035	0.004 U	0.004 U	0.026	0.004 U	0.004 U	0.004 U
Nitrate	.025J	0.99	0.11	0.02U	1.2	0.3	0.26
Sulfate	16	9.9	4.5	7.8	10	15	15
Sulfide	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Alkalinity	194	167	67.0	79.2	151	154	160
Total Organic Carbon	1.6	1.0U	1.5	2.2	1.2	0.57J	1.4

Notes

- $U = \ Compound \ not \ detected \ above \ specified \ laboratory \ detection \ limit$
- J= Laboratory estimated concentration
- (1) Duplicate sample collected at LVRA07-MNAGW-MW-D2 location

TABLE 5
Comparison Criteria for Detected Constituents in Groundwater

BASIS FOR CRITERIA	HUMAN HEALTH	STATE
	EPA Maximum Contaminant Level	NYSDEC Water Quality Values [Class GA]
Volatile Organics (ug/L)		
1,1,2-Trichloroethane	200	5
1,1-Dichloroethene	7	5
1,2,3-Trichlorobenzene	NC	5
1,2,4-Trichlorobenzene	70	5
1,2-Dichlorobenzene	600	3
1,2-Dichloroethane	5	0.6
1,2-Dichloroethene (total)	70 🗆	5
cis-1,2-Dichloroethene	70	5
trans-1,2-Dichloroethene	100	5
1,2-Dichloropropane	5	1
1,3-Dichlorobenzene	NC	3
1,4-Dichlorobenzene	75	3
2-Hexanone	NC	50
Acetone	NC	50
Benzene	5	1
Carbon disulfide	NC	60
Chlorobenzene	100	5
Chloroethane	NC	5
Cyclohexane	NC	NC
Ethylbenzene	700	5
Methyl chloride (Chloromethane)	NC	5
Methyl ethyl ketone (2-Butanone)	NC	50
Methyl isobutyl ketone (4-Methyl-2-pentanone)	NC	NC
Methylcyclohexane	NC	NC
Styrene	100	5
Tetrachloroethene	5	5
Toluene	1000	5
Trichloroethene	5	5
m/p-Xylene	10000	5
Xylenes (total)	10000	5

									BIAMW-2								
	05/05/1999	05/05/1999 Duplicate	12/14/1999	12/14/1999 Duplicate	01/10/2001	12/11/2003	10/31/2006	10/31/2006 Duplicate	09/25/2007	09/25/2008	09/22/2009	09/21/2010	09/28/2011	09/26/2012	09/26/2012 Duplicate	09/19/2013	09/23/2014
Volatile Organics (ug/L)			I		I	I	ı				I		ı				
1,1,2-Trichloroethane																	
1,1-Dichloroethene	1 J		0.7 J	0.7 J		0.63	0.8	0.89	0.73	0.6	0.58 J	0.51 J		0.62 J	0.29 J	0.57 J	0.4J
1,4-Dichlorobenzene	NA	NA	NA	NA			0.16 J	0.12 J									
Benzene	0.7 J		0.4 J	0.4 J		0.32 J			0.29 J								
2-Butanone																	
Chloroethane	0.8 J						0.19 J	0.23 J									
1,2-Dichloroethene (total)	54	51	40	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	NA	NA	NA	NA	44	40 D	45 D	46 D	54 D	42	29	32	31	31	23	28	24
trans-1,2-Dichloroethene	NA	NA	NA	NA		0.28 J	0.51	0.49 J	0.47 J								
Ethylbenzene							0.25 J										
Isopropylbenzene	NA	NA	NA	NA	NA		0.14 J										
Toluene																-	
Trichloroethene	230	190	84	87	110	36 D	58 D	58 D	69 J	75	77	75	75	79	51	61	42
Vinyl Chloride	4 J	2 J	1 J	1 J	NA	4.8	4	4.8	4.2	3	0.77 J	2.1	1.2	1.3		1.3	1.0
m/p-Xylene	NA	NA	NA	NA	NA	NA	0.1 J										
MNA/Water Quality Parameters (mg/L)																	
Alkalinity	NA	NA	NA	NA	NA	180	190	180	176	194	173	194	189	201	201	201	194
Chloride	NA	NA	NA	NA	NA	19	26	26	28.4	32.2	25.2	24.1	21.9	19.1	19.1	16.7	16
Ferrous Iron	NA	NA	NA	NA	NA		0.17	0.14						0.09J	0.09J		
Methane	NA	NA	NA	NA	NA	0.54 JD	0.046 J	0.11 J	0.026	0.020	0.009	0.052	0.035	0.0059	0.0059	0.075	0.035
Nitrate	NA	NA	NA	NA	NA									0.027 J	0.027 J	0.052	.025J
Sulfate	NA	NA	NA	NA	NA	16	17	17	20.5	21.2	16.5	17	16	16.3	16.3	17.5	16
Sulfide	NA	NA	NA	NA	NA	NA	0.02	0.018									
TOC	NA	NA	NA	NA	NA	2.6			1.6		1.6 J	0.9J	1.1	0.97 J	0.97 J	0.82 J	1.6

							BIAMW-3						
	01/09/2001	12/10/2003	10/30/2006	09/25/2007	09/25/2008	09/25/2008 Duplicate	09/22/2009	09/22/2009 Duplicate	09/21/2010	09/28/2011	09/28/2011 Duplicate	09/19/2013	09/23/2014
Volatile Organics (ug/L)													
1,1,2-Trichloroethane													
1,1-Dichloroethene													
1,4-Dichlorobenzene													
Benzene			0.12 J										
2-Butanone													
Chloroethane			0.091 J										
1,2-Dichloroethene (total)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	3	2.2	0.36 J	0.86	0.7	0.8			1				
trans-1,2-Dichloroethene													
Ethylbenzene													
Isopropylbenzene	NA												
Toluene													
Trichloroethene	8	6.3	2.2	7.9 J	5	6	4.2	3.7	11	3.3	3.3	3.9	2.2
Vinyl Chloride													
m/p-Xylene	NA	NA											
MNA/Water Quality													
Parameters (mg/L)													
Alkalinity	NA	160	260	155	167	168	171	173	155	168	167	165	167
Chloride	NA	44	78	64.4	46.0	46.3	31.8	32.1	42.3	26.2	26.1	20.3	19
Ferrous Iron	NA			0.18		-							
Methane	NA	0.07 J N				-	1						
Nitrate	NA	1.2	1.9	1.5	1.4	1.3	1.43	1.46	1.04	1.4	1.3	1.2	0.99
Sulfate	NA	12	27	23.8	13.8	13.2	11.5	11.0	14.1	10.9	10.8	10.6	9.9
Sulfide	NA	NA	0.018										
TOC	NA		26	1.4					0.4J	1.0U	1.0U	0.44 J	

						BIAMW-5					
	12/13/1999	01/04/2001	10/30/2006	09/25/2007	09/25/2008	09/22/2009	12/15/2010	09/28/2011	09/26/2012	09/19/2013	09/23/2014
Volatile Organics (ug/L)											
1,1,2-Trichloroethane											
1,1-Dichloroethene											
1,4-Dichlorobenzene	NA										
Benzene			0.23 J								
2-Butanone						3.6 J					
Chloroethane			0.13 J								
1,2-Dichloroethene (total)		NA									
cis-1,2-Dichloroethene	NA										
trans-1,2-Dichloroethene											
Ethylbenzene			0.13 J								
Isopropylbenzene	NA	NA									
Toluene						5.5					
Trichloroethene											
Vinyl Chloride											
m/p-Xylene	NA	NA									
MNA/Water Quality											
Parameters (mg/L)											
Alkalinity	NA	NA	70	65	65.4	61.8	60.0	66.0	64.8	68.5	67.0
Chloride	NA	NA	11	38.4	23.3	12	9.49	11.6	17.2	14.2	9.1
Ferrous Iron	NA	NA	0.18						0.077J		
Methane	NA	NA		0.0061		0.00031 J					
Nitrate	NA	NA	0.73				1.07	0.31	0.14	0.051	0.11
Sulfate	NA	NA	6.7	7.4	6.4	5.31	6.92	5.4	6.9	5.4	4.5
Sulfide	NA	NA	1								
TOC	NA	NA		1.3		1.1 J	1.2	0.79J	0.86 J	0.69 J	1.5

	BIAMW-6										
	12/13/1999	01/10/2001	10/30/2006	09/25/2007	09/25/2008	09/22/2009	09/21/2010	09/28/2011	09/26/2012	09/19/2013	09/23/2014
Volatile Organics (ug/L)											
1,1,2-Trichloroethane											
1,1-Dichloroethene				0.66							
1,4-Dichlorobenzene	NA										
Benzene											
2-Butanone											
Chloroethane			0.11 J								
1,2-Dichloroethene (total)	30	NA									
cis-1,2-Dichloroethene	NA	44	35 D	120	39	26	27	13	5.8	14	6.5
trans-1,2-Dichloroethene	NA		0.48 J	0.31 J							
Ethylbenzene											
Isopropylbenzene	NA	NA									
Toluene											
Trichloroethene	17	37	19	1.6 J	3	3.7	2.1	1.1	0.60 J	2.2	0.58J
Vinyl Chloride	4 J			9.5 J	5	2.5	2.6	0.99J		1.0	
m/p-Xylene	NA	NA									
MNA/Water Quality											
Parameters (mg/L)	27.				0.11						70.0
Alkalinity	NA	NA	88	75	86.1	92	89.8	61.5	58.7	92.2	79.2
Chloride	NA	NA	13	32.9	17.8	11.3	13.3	6.5	6.8	10.9	7.6
Ferrous Iron	NA	NA								0.08 J	
Methane	NA	NA	0.082 J	0.098	0.064	0.098	0.037	0.020	0.0013J	0.10	0.026
Nitrate	NA	NA					0.054			0.034 J	
Sulfate	NA	NA	11	19.4	10.1	10.9	10.6	9.4	9.0	10.6	7.8
Sulfide	NA	NA									
TOC	NA	NA		1.7		2.5 J	1.6	2.6	1.7	1.3	2.2

	BIAMW-D1									
	12/13/1999	01/10/2001	12/10/2003	10/31/2006	09/22/2009	09/21/2010	09/23/2014			
Volatile Organics (ug/L)										
1,1,2-Trichloroethane										
1,1-Dichloroethene										
1,4-Dichlorobenzene	NA									
Benzene				-						
2-Butanone		-1		-		-1				
Chloroethane										
1,2-Dichloroethene (total)	4 J	NA	NA	NA	NA	NA	NA			
cis-1,2-Dichloroethene	NA	8	4.8	0.42 J	0.92 J					
trans-1,2-Dichloroethene	NA			0.55						
Ethylbenzene										
Isopropylbenzene	NA	NA		-		-				
Toluene		-1		-		-				
Trichloroethene	9 J	18	12	1.8	6.7	2.2	3.5			
Vinyl Chloride		-		0.16 J		-				
m/p-Xylene	NA	NA	NA							
MNA/Water Quality										
Parameters (mg/L)	NA	NA	100	200	151	165	151			
Alkalinity Chloride			190				151			
	NA	NA	42	55	23.8	50.4	14			
Ferrous Iron	NA	NA								
Methane	NA NA	NA	0.06 J N	2.7		2.67	1.2			
Nitrate	NA	NA	1.4	2.7	1.6	2.67	1.2			
Sulfate	NA	NA	13	11	11.7	11.5	10			
Sulfide	NA	NA	NA							
TOC	NA	NA			1.0 J	0.8J	1.2			

TABLE 6 Historical Summary of Detected Groundwater Constituents in MNA Wells 312 Fair Oak Street

	BIAMW-D2													
	12/14/1999	01/10/2001	01/10/2001	12/11/2003	10/30/2006	09/25/2007	09/25/2007	09/25/2008	09/22/2009	09/21/2010	09/28/2011	09/19/2013	09/23/2014	09/23/2014
			Duplicate				Duplicate							Duplicate
Volatile Organics (ug/L)			-	•				•		•	•	•		
1,1,2-Trichloroethane					0.084 J									
1,1-Dichloroethene	0.4 J			0.81	0.54	0.44 J	0.47 J		0.71 J	0.71 J				
1,4-Dichlorobenzene	NA													
Benzene			-		1	1								
2-Butanone			1		1	1								
Chloroethane					0.11 J									
1,2-Dichloroethene (total)	16	NA												
cis-1,2-Dichloroethene	NA	36	29	18 D	26 D	33	33	25	32	16	19	17	13	13
trans-1,2-Dichloroethene	NA				0.71	0.31 J	0.23 J							
Ethylbenzene														
Isopropylbenzene	NA	NA	NA		-	1								
Toluene			-		-	-								
Trichloroethene	58	140	110	78 D	93 D	110 J	110 J	93	140	72	98	88	100	95
Vinyl Chloride			-		1	-								
m/p-Xylene	NA	NA	NA	NA	1	1								
MNA/Water Quality														
Parameters (mg/L)														
Alkalinity	NA	NA	NA	130	140	116	116	133	154	126	138	141	154	160
Chloride	NA	NA	NA	22	31	37.8	37.8	33.4	27.3	28.1	23.9	20.2	19	19
Ferrous Iron	NA	NA	NA			0.23								
Methane	NA	NA	NA	0.07 JN										
Nitrate	NA	NA	NA	0.29	0.34	0.23	0.22	0.24	0.416	0.189	0.20	0.22	0.30	0.26
Sulfate	NA	NA	NA	15	13	19.8	19.1	16.8	17	13.2	13.3	15.4	15	15
Sulfide	NA	NA	NA	NA	0.027									
TOC	NA	NA	NA	2.4		1.8			0.9 J	1.0U	1.0U	1.0U	0.57J	1.4

Notes:

Not detected

J Estimated concentration.

D Value derived from dilution analysis.N Evidence exists for constituent presence.

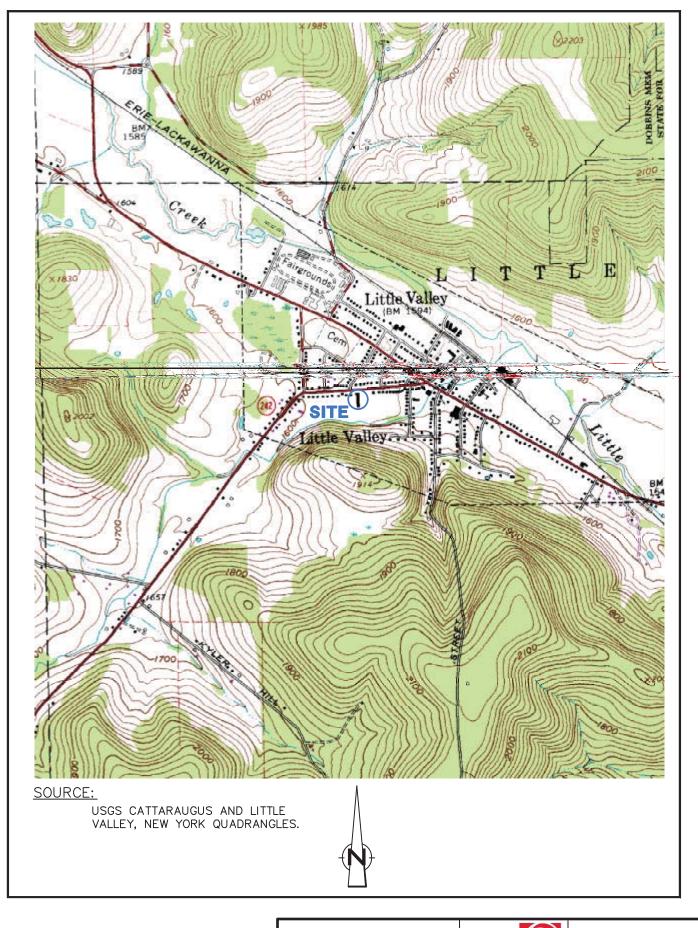
NA Not analyzed.

Above human health-based values.

Above state values.

Above both of the above values.

Figures		



312 Fair Oak Street Little Valley, New York

BUSH INDUSTRIES, INC.

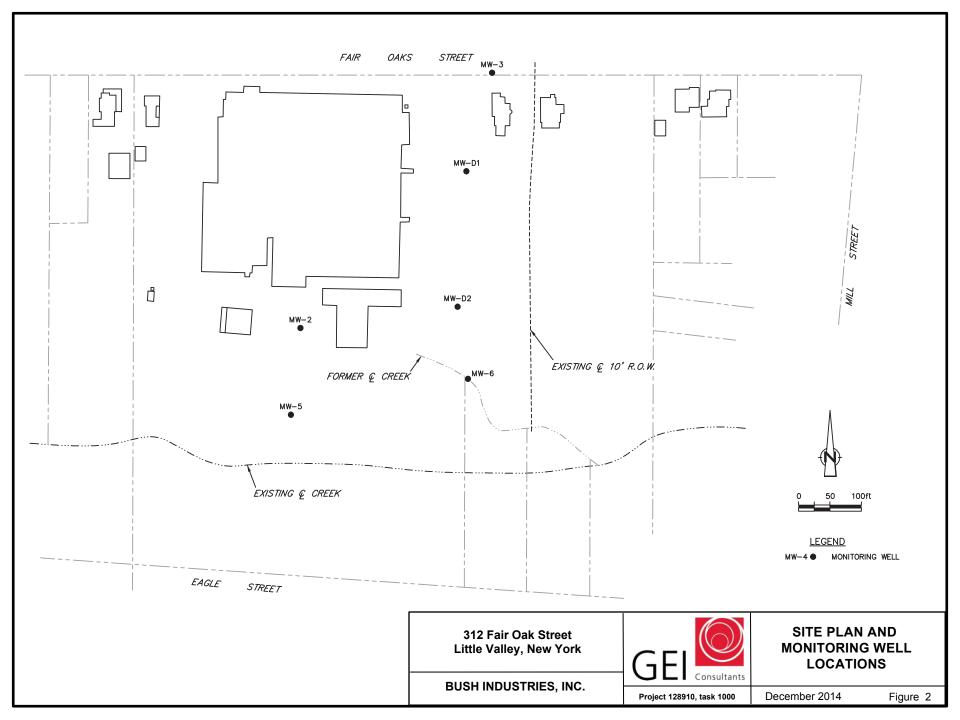


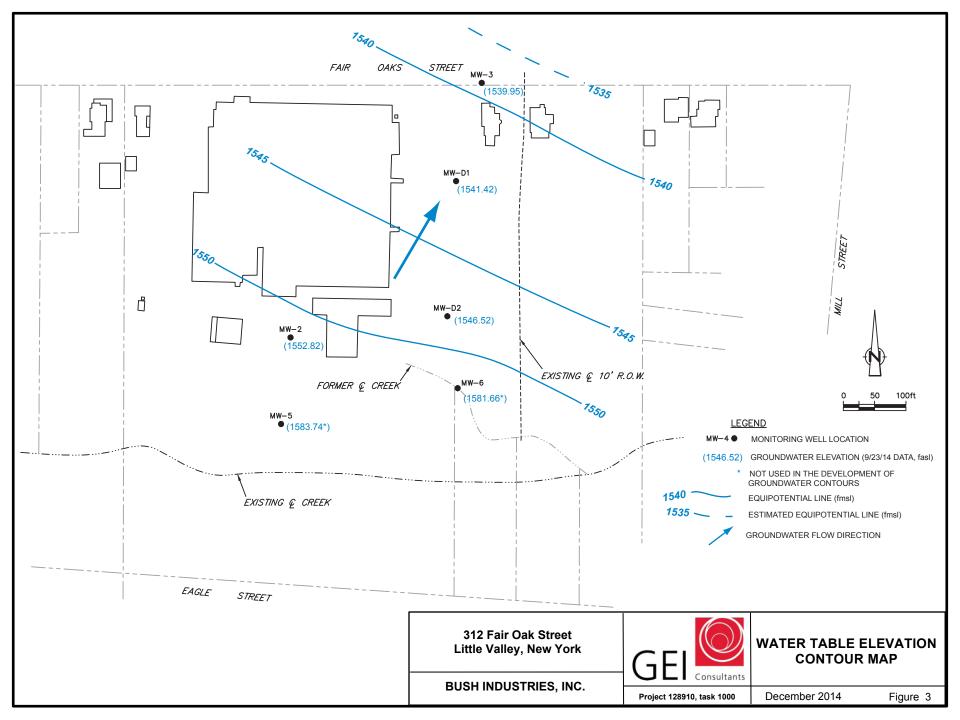
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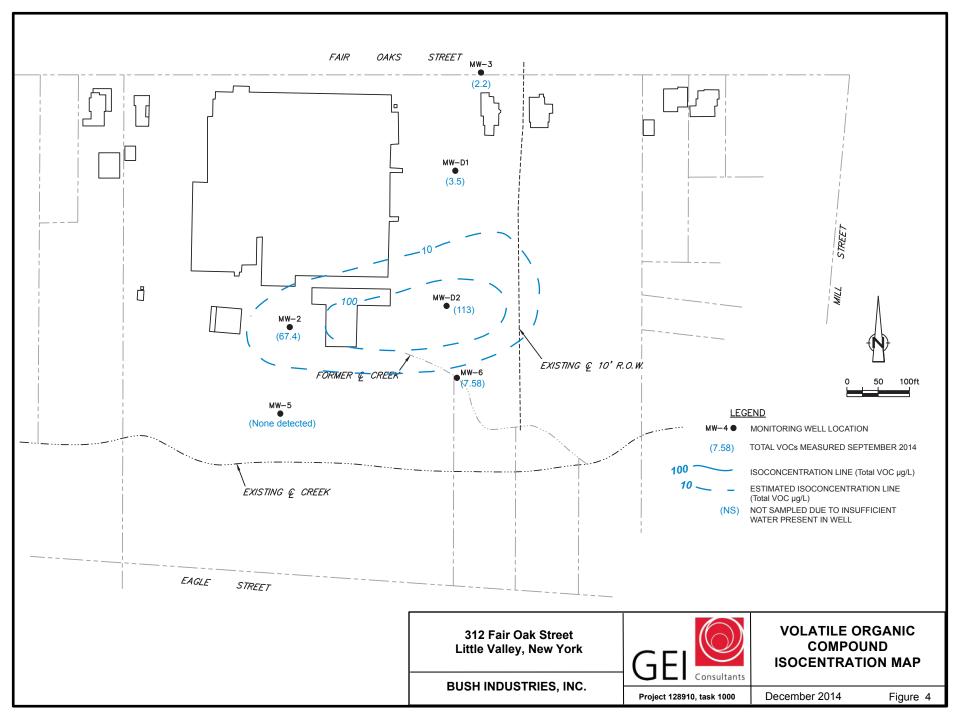
Figure 1

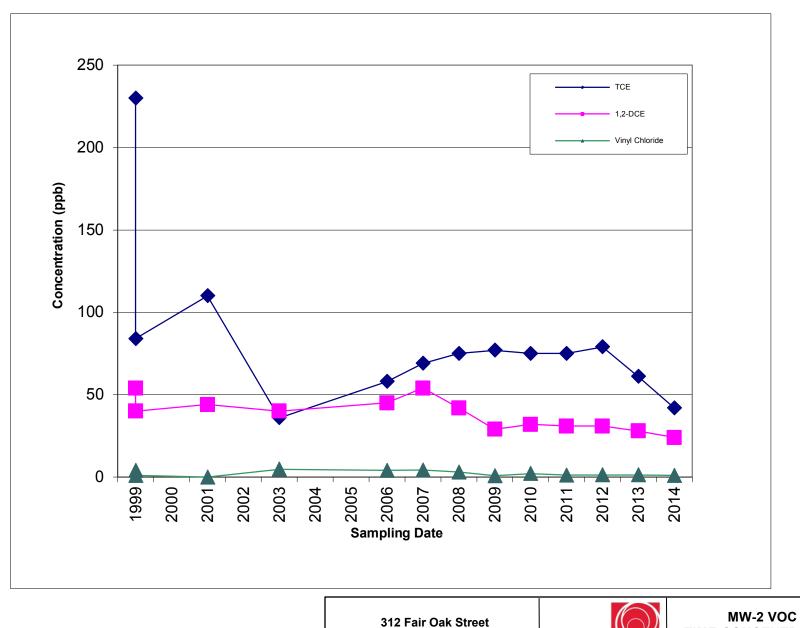
Project 128910, task 1000 Dec

December 2014









312 Fair Oak Street Little Valley, New York

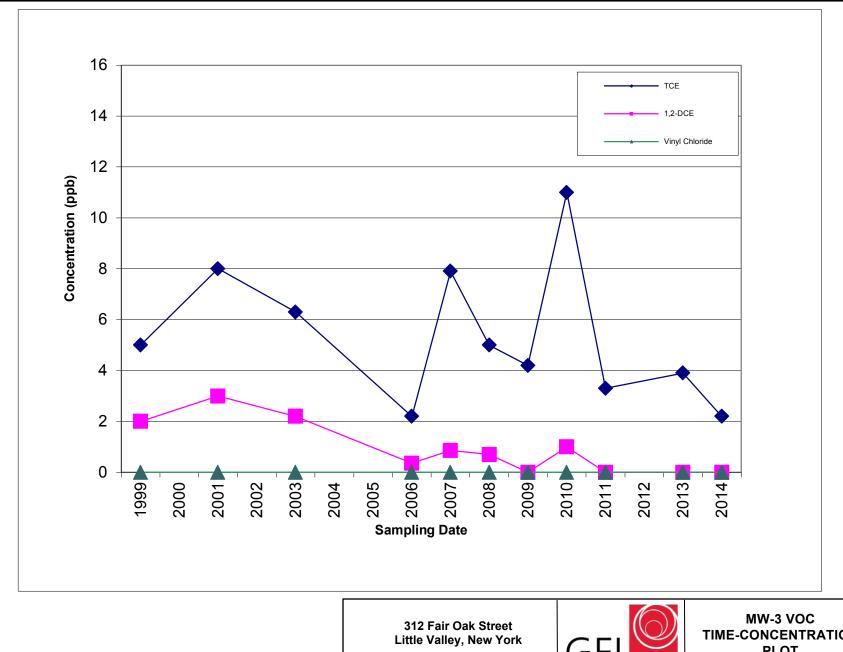
BUSH INDUSTRIES, INC.



MW-2 VOC
TIME-CONCENTRATION
PLOT

Project 128910, task 1000

December 2014

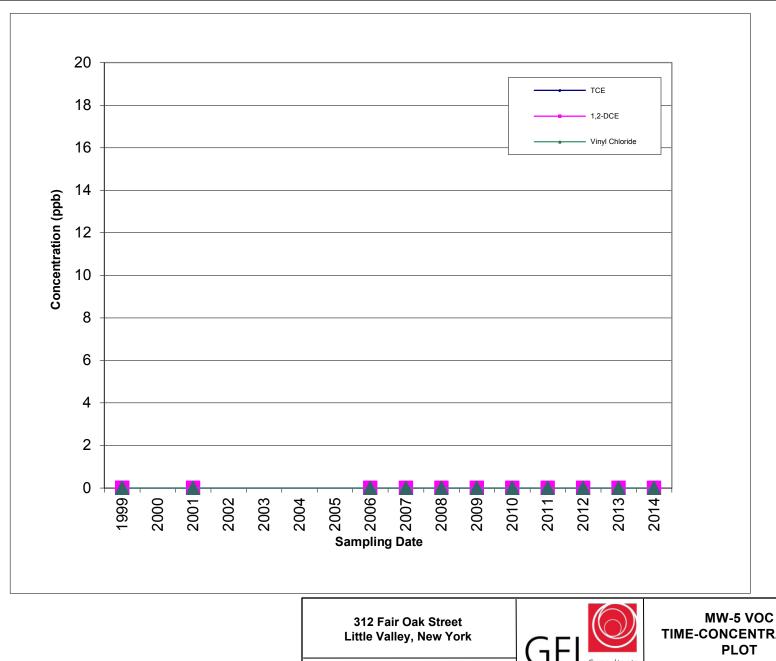


BUSH INDUSTRIES, INC.



TIME-CONCENTRATION PLOT

December 2014 Project 128910, task 1000

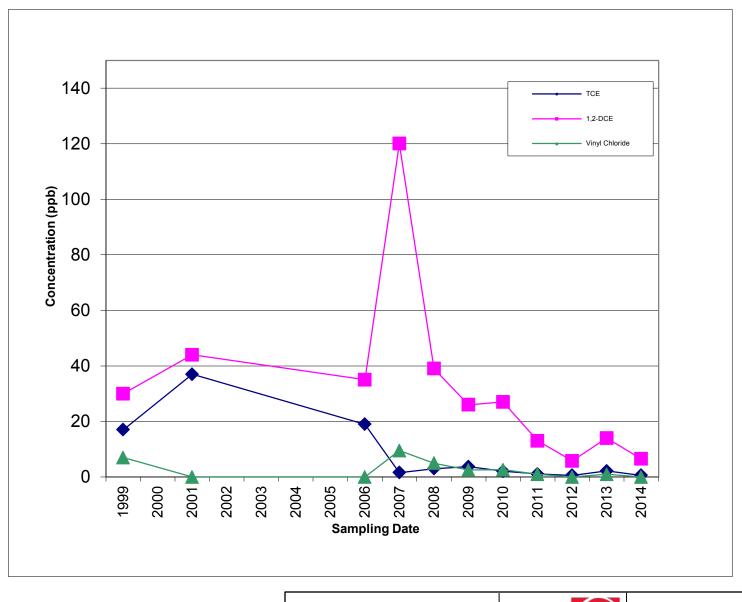


BUSH INDUSTRIES, INC.



TIME-CONCENTRATION

December 2014



312 Fair Oak Street Little Valley, New York

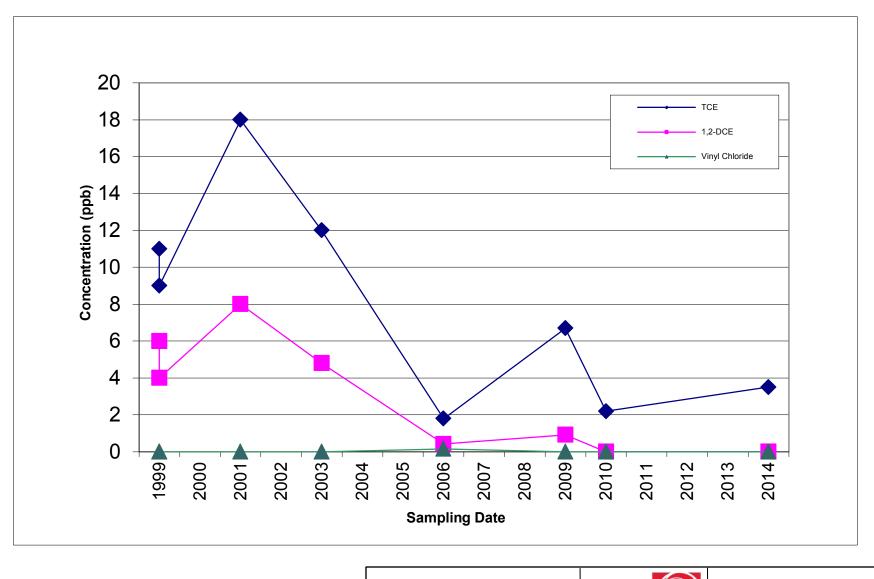
BUSH INDUSTRIES, INC.



MW-6 VOC
TIME-CONCENTRATION
PLOT

Project 128910, task 1000

December 2014



312 Fair Oak Street Little Valley, New York

BUSH INDUSTRIES, INC.

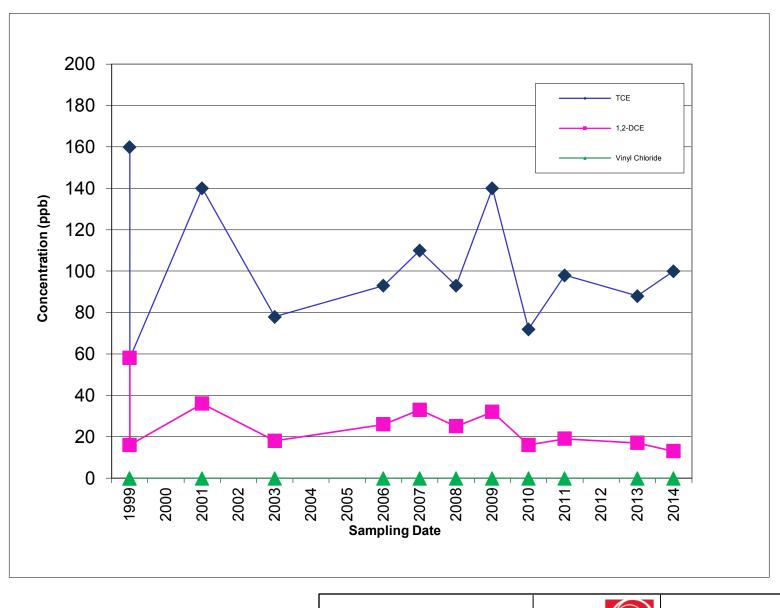


MW-D1 VOC TIME-CONCENTRATION PLOT

Project 128910, task 1000

December 2014

Figure 9



312 Fair Oak Street Little Valley, New York

BUSH INDUSTRIES, INC.



MW-D2 VOC TIME-CONCENTRATION PLOT

December 2014 Project 128910, task 1000

Figure 10

Appendix A		
Data Validation Report		



DATA USABILITY SUMMARY REPORT for

Bush Industries

Analyses: Volatiles, Dissolved Gases, Ferrous Iron, Alkalinity, Chloride, Sulfate, Nitrate, Sulfide, Total Organic Carbon

SAMPLE DELIVERY GROUP 480-67864-1

PREPARED FOR:

GEI Consultants, Inc.

Reviewed by:

Approved by:

Prepared by

MEC^X 12269 East Vassar Drive Aurora, CO 80014



I. INTRODUCTION

Task Order Title: Bush Industries
Contract Task Order: 1427.001H.00
Sample Delivery Group: 480-67864-1
Project Manager: Kelly McIntosh

Matrix: Water QC Level: III

No. of Samples: 9

No. of Reanalyses/Dilutions: 0

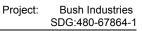
Laboratory: TestAmerica-Buffalo

Table 1. Sample Identification

Client ID	Laboratory ID	Matrix	Sample Date	Method
LVRA08-MNAGW-MW-3	480-67864-1	Water	9/23/2014	300.0, 353.2, 2320B, 3500FE, 4500-SF, 8260B, 9060, RSK175
LVRA08-MNAGW-MW-D1	480-67864-2	Water	9/23/2014	300.0, 353.2, 2320B, 3500FE, 4500-SF, 8260B, 9060, RSK175
LVRA08-MNAGW-MW-D2	480-67864-3	Water	9/23/2014	300.0, 353.2, 2320B, 3500FE, 4500-SF, 8260B, 9060, RSK175
LVRA08-MNAGW-MW-6	480-67864-4	Water	9/23/2014	300.0, 353.2, 2320B, 3500FE, 4500-SF, 8260B, 9060, RSK175
LVRA08-MNAGW-MW-5	480-67864-5	Water	9/23/2014	300.0, 353.2, 2320B, 3500FE, 4500-SF, 8260B, 9060, RSK175
LVRA08-MNAGW-MW-2	480-67864-6	Water	9/23/2014	300.0, 353.2, 2320B, 3500FE, 4500-SF, 8260B, 9060, RSK175
RINSE BLANK	480-67864-7	Water	9/23/2014	8260B
TRIP BLANK (9-11-14)	480-67864-8	Water	9/23/2014	8260B
DUP	480-67864-9	Water	9/23/2014	300.0, 353.2, 2320B, 3500FE, 4500-SF, 8260B, 9060, RSK175

II. Sample Management

No anomalies were observed regarding sample management. The samples in this SDG were received at the laboratory within the temperature limits of $4^{\circ}C \pm 2^{\circ}C$. A change was made to the COC by obliterating the entry original entry. The change was not initialed or dated. The COC and sample receipt checklist noted the dissolved metals samples were not field-filtered. The COC was appropriately signed and dated by field and/or laboratory personnel. Custody seals were present and intact on the cooler.





Data Qualifier Reference Table

Qualifie	r Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins or PCB congeners.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. The associated value is the sample detection limit or the quantitation limit for perchlorate only.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The associated value is an estimated quantity.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
ΩĴ	The analyte was not deemed 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.	The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.



Qualification Code Reference Table

Qualifier	Organics	Inorganics
Н	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect
С	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
В	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
Е	Not applicable.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
Α	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
Т	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	Not applicable.
-	False negative – compound was present but not reported.	Not applicable.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
\$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.



found.

Qualification Code Reference Table Cont.

D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
Р	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within control limits.
* , *	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a	Unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section

description of the problem can be

where a description of the problem

can be found.



III. Method Analyses

A. EPA Method 8260B - Volatile Organic Compounds (VOCs)

Reviewed By: P. Meeks

Date Reviewed: October 24, 2014

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the MEC^X Data Validation Procedure for Volatile Organics (DVP-2, Rev. 0), EPA Method 8260B, CLP Organics Data Review and Preliminary Review (9/2006), and the USEPA Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B (8/2008).

- Holding Times: The preserved water samples were analyzed within 14 days of collection.
- GC/MS Tuning: The BFB tunes met the method abundance criteria. Samples were analyzed within 12 hours of the BFB injection time.
- Calibration: Initial calibration average RRFs and CCV RRFs were within the control limits of ≥0.30 for chlorobenzene and 1,1,2,2-tetrachloroethane, and ≥0.10 for chloromethane, bromoform, and 1,1-dichloroethane. Average RRFs and CCV RRFs for the remaining analytes were ≥0.05. All initial calibration %RSDs were within the method control limits of ≤30% for the calibration check compounds (1,1-dichloroethene, chloroform, 1,2-dichloropropane, toluene, ethylbenzene, vinyl chloride) and ≤15% for remaining compounds, or the linear regression r² values were ≥0.990. The CCV %Ds were within the control limit of ≤20%.
- Blanks: The method blank had no target compound detects.
- Blank Spikes and Laboratory Control Samples: A subset of thirteen target compounds was spiked in the LCS. All recoveries were within laboratory control limits.
- Surrogate Recovery: The surrogate recoveries were within the laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on sample LVRA08-MNAGW-MW-6. A subset of thirteen target compounds was spiked in the MS/MSD. All recoveries and RPDs were within the laboratory control limits.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:



- Trip Blanks: Sample Trip Blank (9-11-14) was the trip blank identified for the samples in this SDG. The trip blank had no target compound detects.
- Field Blanks and Equipment Rinsates: Sample Rinse Blank was identified as the equipment rinsate associated with the samples in this SDG. The equipment rinsate had no target compound detects.
- Field Duplicates: Samples LVRA08-MNAGW-MW-D2 and DUP were identified as the field duplicate pair in this SDG. Trichloroethene and cis-1,2-dichloroethene were detected above the reporting limit in both samples with RPD of 5% and 0%, respectively. The pair was considered to be in good agreement.
- Internal Standards Performance: The internal standard area counts and retention times for the samples were within the control limits established by the continuing calibration standards: -50%/+100% for internal standard areas and ±30 seconds for retention times.
- Compound Identification: Compound identification was not verified at this level of validation. The laboratory analyzed for volatiles by EPA Method 8260B.
- Compound Quantification: Compound quantitation was not verified at this level of validation. The reporting limits were supported by the laboratory MDLs. Any detect between the MDL and the reporting limit was qualified as estimated, "J," in the samples of this SDG. Reported nondetects are valid to the reporting limit.

Sample DUP and LVRA08-MNAGW-MW-D2 were analyzed at 2× dilutions in order to report trichloroethene within the linear range of the calibration. As the laboratory reported both sets of data, trichloroethene was rejected, "R," in the undiluted samples in favor of the diluted results. The remaining analytes were rejected, "R," in the dilution, in favor of the undiluted results.

- Tentatively Identified Compounds: TICs were not reported by the laboratory for this SDG.
- System Performance: System performance was not evaluated at this level of validation.

B. Method RSK-175-Methane, Ethane, Ethene

Reviewed By: P. Meeks

Date Reviewed: October 24, 2014

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in MEC^{\times} Data Validation Procedure for Volatile Organics (DVP-2, Rev. 0), MEC^{\times} Data Validation Procedure for Volatile Organics (DVP-2, Rev. 0), MEC^{\times} Data Validation Procedure for Volatile Organics (DVP-2, Rev. 0), MEC^{\times} Data Review and Preliminary Review (9/2006), and SW-846 Method 8000 (12/1996).



- Holding Times: The samples were analyzed within 14 days of collection.
- GC/MS Tuning: Not applicable to this analysis.
- Calibration: Initial calibration %RSDs were within the control limit of ≤20%. The CCV %Ds were within the control limit of ≤15%.
- Blanks: The method blank had no detects.
- Blank Spikes and Laboratory Control Samples: Recoveries were within the laboratory control limits.
- Surrogate Recovery: Surrogates were not utilized in this method.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on sample LVRA08-MNAGW-MW-6. The MS recovery for methane was below the control limit at 20%; however, qualifications are not applied for recovery outliers unless the MS and MSD recoveries are outside the control limits. The remaining recoveries and all RPDs were within the laboratory control limits.
- Compound Identification: Compound identification was not verified at this level of validation. The laboratory analyzed for methane, ethane, and ethene by EPA Method RSK-175.
- Compound Quantification and Reported Detection Limits: Compound quantification was not verified at this level of validation. The reporting limits were supported by the laboratory MDL. Any detect between the MDL and the reporting limit was qualified as estimated, "J," in the samples of this SDG. Reported nondetects are valid to the reporting limit.
- System Performance: System performance was not evaluated at this level of validation.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - o Trip Blanks: This SDG had no identified trip blank for this analysis.
 - Field Blanks and Equipment Rinsates: Sample Rinse Blank was identified as the equipment rinsate associated with the samples in this SDG. The equipment rinsate had no target compound detects.
 - Field Duplicates and Field Split Samples: Samples LVRA08-MNAGW-MW-D2 and DUP were identified as the field duplicate pair in this SDG. Neither sample had reported detects above the MDL. The pair was considered to be in good agreement.



C. VARIOUS EPA METHODS—General Minerals

Reviewed By: P. Meeks

Date Reviewed: October 24, 2014

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 0), EPA Methods 300.0, 353.2, 2320B, and 9060, Standard Methods for the Examination of Water and Wastewater Methods 3500FE and 4500-SF, and the Validation of Metals for the Contract Laboratory Program based on SOW ILMO5.3, SOP Revision 13 (9/2006).

- Holding Times: The analytical holding times, 28 days from collection for chloride, sulfate and TOC, 14 days from collection for alkalinity, seven days from collection for sulfide, and 48 hours from collection for nitrate, were met. As per the method, the analytical holding time for ferrous iron is noted as "in field". Ferrous iron in sample DUP was analyzed 10 days after collection; therefore, the nondetected result for this sample was rejected, "R," for the grossly exceeded holding time. The remaining ferrous iron analyses were performed two days after receipt at the laboratory, results for the remaining samples, all nondetects, were qualified as estimated, "UJ."
- Calibration: No reagent standardization information was provided for the sulfide analyses.
 Initial calibration r-values were ≥0.995 for the remaining analyses. All ICV and CCV recoveries were within the laboratory control limits of 90-110%. The reviewer observed an analyst's note on the sulfide bench sheet indicating that an expired reagent was used in the analysis. The note indicated that as all quality control samples were acceptable, the samples were not reanalyzed.
- Blanks: Method blanks had no detects. Chloride and sulfate CCBs were not assessed as the laboratory did not provide CCB summary data. There were no detects in the remaining CCBs.
- Blank Spikes and Laboratory Control Samples: Recoveries and RPDs were within laboratory control limits.
- Laboratory Duplicates: A laboratory duplicate analyses was performed on LVRA08-MNAGW-MW-3 for TOC and sample DUP for ferrous iron. The RPDs were within the laboratory control limits.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on LVRA08-MNAGW-MW-6 for all analytes. Matrix spike analyses were also performed on sample LVRA08-MNAGW-MW-D2 for TOC and sample DUP for ferrous iron. All recoveries and RPDs were within the laboratory-established control limits.



- Sample Result Verification: Compound identification was not verified at this level of validation. The sample result summaries were compared to the raw data and no transcription errors were noted.
- Field QC Samples: Field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples for these analyses.
 - o Field Duplicates: Field Duplicates: Samples LVRA08-MNAGW-MW-D2 and DUP were identified as the field duplicate pair in this SDG. The samples were considered to be in good agreement as all detects were in common and all RPDs were less than 30%. The ferrous iron result for sample DUP was rejected (see Holding Times) and therefore, no comparison was made for this analyte.

Validated Sample Result Forms: 480-67864-1

Analysis Metho	od 300					
Sample Name:	DUP			Matrix:	Water Resi	ult Type: FS
Lab Sample Name:	480-67864-9	Sample l	Date: 9/23	/2014	V	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Chloride	16887-00-6	19	0.5	MG/L		
Sulfate	14808-79-8	15	0.5	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-2		Matrix:	Water Resi	ult Type: FS
Lab Sample Name:	480-67864-6	Sample l	Date: 9/23	/2014	V	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Chloride	16887-00-6	16	0.5	MG/L		
Sulfate	14808-79-8	16	0.5	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-3		Matrix:	Water Resi	ult Type: FS
Lab Sample Name:	480-67864-1	Sample l	Date: 9/23	/2014	V	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Chloride	16887-00-6	19	0.5	MG/L		
Sulfate	14808-79-8	9.9	0.5	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-5		Matrix:	Water Resu	ult Type: FS
Lab Sample Name:	480-67864-5	Sample l	Date: 9/23	/2014	7	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Chloride	16887-00-6	9.1	0.5	MG/L		
Sulfate	14808-79-8	4.5	0.5	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-6		Matrix:	Water Resi	ult Type: FS
Lab Sample Name:	480-67864-4	Sample l	Date: 9/23	/2014	7	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Chloride	16887-00-6	7.6	0.5	MG/L		
Sulfate	14808-79-8	7.8	0.5	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-D	1	Matrix:	Water Resi	ult Type: FS
Lab Sample Name:	480-67864-2	Sample 1	Date: 9/23	/2014	7	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Chloride	16887-00-6	14	0.5	MG/L		
Sulfate	14808-79-8	10	0.5	MG/L		

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Analysis Method 300

Sample Name:	LVRA08-MNA	GW-MW-D	D 2	Matrix:	Water Resi	ult Type: FS	S
Lab Sample Name:	480-67864-3	Sample 1	Date: 9/23	/2014	7	Validation Le	vel: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chloride	16887-00-6	19	0.5	MG/L			
Sulfate	14808-79-8	15	0.5	MG/L			

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Analysis Method 353.2

Sample Name:	DUP			Matrix:	Water Resu	ult Type: FS
Lab Sample Name:	480-67864-9	Sample l	Date: 9/23.	/2014	V	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Nitrate	14797-55-8	0.26	0.05	MG/L A		
Sample Name:	LVRA08-MNA	GW-MW-2		Matrix:	Water Resu	alt Type: FS
Lab Sample Name:	480-67864-6	Sample l	Date: 9/23	/2014	V	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Nitrate	14797-55-8	0.025	0.05	MG/L A	J	J
Sample Name:	LVRA08-MNA	GW-MW-3		Matrix:	Water Resu	ılt Type: FS
Lab Sample Name:	480-67864-1	Sample l	Date: 9/23	/2014	V	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Nitrate	14797-55-8	0.99	0.05	MG/L A		
Sample Name:	LVRA08-MNA	GW-MW-5		Matrix:	Water Resu	ılt Type: FS
Lab Sample Name:	480-67864-5	Sample l	Date: 9/23	/2014	V	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Nitrate	14797-55-8	0.11	0.05	MG/L A		
Sample Name:	LVRA08-MNA	GW-MW-6		Matrix:	Water Resu	ılt Type: FS
Lab Sample Name:	480-67864-4	Sample l	Date: 9/23	/2014	V	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Nitrate	14797-55-8	0.02	0.02	MG/L A	U	U
Sample Name:	LVRA08-MNA	GW-MW-D	1	Matrix:	Water Resu	ılt Type: FS
Lab Sample Name:	480-67864-2	Sample 1	Date: 9/23	/2014	V	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Nitrate	14797-55-8	1.2	0.05	MG/L A		
Sample Name:	LVRA08-MNA	GW-MW-D	2	Matrix:	Water Resu	ılt Type: FS
Lab Sample Name:	480-67864-3	Sample l	Date: 9/23	/2014	V	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
		,		CILLE	&	Quantici

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CAS No	Sample Name:	DUP			Matrix:	Water Resi	ult Type: FS	S
Value	Lab Sample Name:	480-67864-9	Sample 1	Date: 9/23/2	2014	7	Validation Le	vel: III
2,2-Tetrachloroethane 79-34-5 0.21 0.21 UGAL U U 2-Trichloro-1,2-2-moroethane 76-13-1 0.31 0.31 UGAL U U 2-Trichloroethane 79-00-5 0.23 0.23 UGAL U U Dichloroethane 75-34-3 0.38 0.38 UGAL U U Dichloroethane 75-34-3 0.38 0.38 UGAL U U Dichloroethane 75-34-3 0.38 0.38 UGAL U U Dichloroforbane 120-82-1 0.41 0.41 UGAL U U Dibromo-3-Chloropropane 96-12-8 0.39 0.39 UGAL U U Dibrhoroprobane 96-12-8 0.39 0.39 UGAL U U Dichloroprobane 98-50-1 0.79 0.79 UGAL U U Dichloropropane 78-87-5 0.72 0.72 UGAL U U Dichl	Analyte:	CAS No		RL				Validation Notes
2-Trichloro-1,2,2- uoroethane 2-Trichloroethane 2-Trichloroethane 3-9-00-5 0,23 0,23 0,23 0,23 0,24 0,24 0,27 0,27 0,28 0,38 0,38 0,38 0,38 0,38 0,38 0,38 0,3	1,1,1-Trichloroethane	71-55-6	0.82	0.82	UG/L	U	U	
Dichlorochane 79-00-5 0.23 0.23 UGAL U U U U U U U U U	,1,2,2-Tetrachloroethane	79-34-5	0.21	0.21	UG/L	U	U	
Dichloroethane 75-34-3 0.38 0.38 UG/L U U U U U U U U U	,1,2-Trichloro-1,2,2- rifluoroethane	76-13-1	0.31	0.31	UG/L	U	U	
Dichloroethene 75-35-4 0.29 0.29 UG/L U U U	,1,2-Trichloroethane	79-00-5	0.23	0.23	UG/L	U	U	
4-Trichlorobenzene 120-82-1 0.41 0.41 UG/L U U Dibromo-3-Chloropropane 96-12-8 0.39 0.39 UG/L U U Dibromo-3-Chloropropane 96-12-8 0.39 0.39 UG/L U U Dibromo-thane 106-93-4 0.73 0.73 UG/L U U Dichlorobenzene 95-50-1 0.79 0.79 UG/L U U Dichloropropane 107-06-2 0.21 0.21 UG/L U U Dichloropropane 78-87-5 0.72 0.72 UG/L U U Dichloropropane 541-73-1 0.78 0.78 UG/L U U Dichlorobenzene 541-73-1 0.78 0.78 UG/L U U Dichlorobenzene 106-46-7 0.84 0.84 UG/L U U U Dichlorobenzene 106-46-7 0.84 0.84 UG/L U U U U U U U U U U U U U U U U U U U	1-Dichloroethane	75-34-3	0.38	0.38	UG/L	U	U	
Dibromo-3-Chloropropane 96-12-8 0.39 0.39 UG/L U U U U U U U U U	,1-Dichloroethene	75-35-4	0.29	0.29	UG/L	U	U	
Dibromoethane 106-93-4 0.73 0.73 UG/L U U U	2,4-Trichlorobenzene	120-82-1	0.41	0.41	UG/L	U	U	
Dichlorobenzene 95.50-1 0.79 0.79 UG/L U U U U U U U U U	2-Dibromo-3-Chloropropan	e 96-12-8	0.39	0.39	UG/L	U	U	
Dichloroethane 107-06-2 0.21 0.21 UG/L U U U U U U U U U	2-Dibromoethane	106-93-4	0.73	0.73	UG/L	U	U	
Dichloropropane 78-87-5 0.72 0.72 UG/L U U U U U U U U U	2-Dichlorobenzene	95-50-1	0.79	0.79	UG/L	U	U	
Dichlorobenzene 541-73-1 0.78 0.78 UG/L U U U U U U U U U	2-Dichloroethane	107-06-2	0.21	0.21	UG/L	U	U	
Dichlorobenzene 106-46-7 0.84 0.84 UG/L U U U U U U U U U	2-Dichloropropane	78-87-5	0.72	0.72	UG/L	U	U	
tutanone 78-93-3 1.3 1.3 UG/L U U texanone 591-78-6 1.2 1.2 UG/L U U tethyl-2-pentanone 108-10-1 2.1 2.1 UG/L U U totone 67-64-1 3 3 3 UG/L U U totone 67-64-1 3 3 3 UG/L U U totone 71-43-2 0.41 0.41 UG/L U U totone 75-27-4 0.39 0.39 UG/L U U totonoform 75-25-2 0.26 0.26 UG/L U U toton disulfide 75-15-0 0.19 0.19 UG/L U U toton tetrachloride 56-23-5 0.27 0.27 UG/L U U toton tetrachloride 56-23-5 0.27 0.75 UG/L U U torobenzene 108-90-7 0.75 0.75 UG/L U U torotethane 75-60-3 0.32 0.32 UG/L U U torotethane 74-87-3 0.35 0.35 UG/L U U torotethane 74-87-3 0.35 0.35 UG/L U U torotethane 74-87-3 0.35 0.35 UG/L U U torotethane 156-59-2 13 1 UG/L torotethane 156-59-2 13 1 UG/L torotethane 110-82-7 0.18 0.18 UG/L U U torotethane 124-48-1 0.32 0.32 UG/L U U torotethane 124-48-1 0.32 0.32 UG/L U U torotethane 75-71-8 0.68 0.68 UG/L U U torotodifluoromethane 124-48-1 0.74 0.74 UG/L U U torotopylbenzene 98-82-8 0.79 0.79 UG/L U U torotopylbenzene 98-82-8 0.79 0.79 UG/L U U torotylbenzene 98-82-8 0.79 0.79 UG/L U U torotylbenzene 14thyl acetate 79-20-9 0.5 0.5 UG/L U U torotylbenzene 14thyl acetate 79-20-9 0.5 UG/L U U torotyl	3-Dichlorobenzene	541-73-1	0.78	0.78	UG/L	U	U	
Sexanone S91-78-6 1.2 1.2 UG/L U U U U U U U U U	-Dichlorobenzene	106-46-7	0.84	0.84	UG/L	U	U	
fethyl-2-pentanone 108-10-1 2.1 2.1 UG/L U U etone 67-64-1 3 3 UG/L U U otone 71-43-2 0.41 0.41 UG/L U U modichloromethane 75-27-4 0.39 0.39 UG/L U U monoform 75-25-2 0.26 0.26 UG/L U U momorethane 74-83-9 0.69 0.69 UG/L U U bon disulfide 75-15-0 0.19 0.19 UG/L U U bon tetrachloride 56-23-5 0.27 0.27 UG/L U U orosehane 108-90-7 0.75 0.75 UG/L U U orosethane 75-00-3 0.32 0.32 UG/L U U oromethane 74-87-3 0.35 0.35 UG/L U U 1,2-Dichloroethene 156-59-2 13 <t< td=""><td>Sutanone</td><td>78-93-3</td><td>1.3</td><td>1.3</td><td>UG/L</td><td>U</td><td>U</td><td></td></t<>	Sutanone	78-93-3	1.3	1.3	UG/L	U	U	
totone 67-64-1 3 3 3 UG/L U U U U U U U U U U U U U U U U U U U	Iexanone	591-78-6	1.2	1.2	UG/L	U	U	
Track Trac	Iethyl-2-pentanone	108-10-1	2.1	2.1	UG/L	U	U	
Marco Marc	etone	67-64-1	3	3	UG/L	U	U	
Marcon M	nzene	71-43-2	0.41	0.41	UG/L	U	U	
Description	modichloromethane	75-27-4	0.39	0.39	UG/L	U	U	
bon disulfide 75-15-0 0.19 0.19 UG/L U U bon tetrachloride 56-23-5 0.27 0.27 UG/L U U orobenzene 108-90-7 0.75 0.75 UG/L U U orocethane 75-00-3 0.32 0.32 UG/L U U oromethane 74-87-3 0.35 0.35 UG/L U U oromethane 74-87-3 0.35 0.35 UG/L U U 1,2-Dichloroethene 156-59-2 13 1 UG/L 1,3-Dichloropropene 10061-01-5 0.36 0.36 UG/L U U chlorodifluoromethane 124-48-1 0.32 0.32 UG/L U U oromochloromethane 75-71-8 0.68 0.68 UG/L U U oromochloromethane 100-41-4 0.74 0.74 UG/L U U oromopylbenzene 98-82-8 0.79 0.79 UG/L U U oromopylbenzene 79-20-9 0.5 0.5 UG/L U U oromochloromethane 79-20-9 0.5 0.5 UG/L U U	moform	75-25-2	0.26	0.26	UG/L	U	U	
bon tetrachloride 56-23-5 0.27 0.27 UG/L U U orobenzene 108-90-7 0.75 0.75 UG/L U U orocethane 75-00-3 0.32 0.32 UG/L U U orocethane 75-06-3 0.34 0.34 UG/L U U oromethane 74-87-3 0.35 0.35 UG/L U U 1,2-Dichloroethene 156-59-2 13 1 UG/L 1,3-Dichloropropene 10061-01-5 0.36 0.36 UG/L U U oromochloromethane 110-82-7 0.18 0.18 UG/L U U oromochloromethane 124-48-1 0.32 0.32 UG/L U U oromochloromethane 124-48-1 0.32 0.32 UG/L U U oromochloromethane 75-71-8 0.68 0.68 UG/L U U oromochloromethane 100-41-4 0.74 0.74 UG/L U U oropylbenzene 98-82-8 0.79 0.79 UG/L U U oropylbenzene 98-82-8 0.79 0.5 0.5 UG/L U U oropylbenzene 100-41-4 0.74 UG/L U U oropylbenzene 98-82-8 0.79 0.79 UG/L U U oropylbenzene 100-41-4 0.74 0.74 UG/L U U oropylbenzene 98-82-8 0.79 0.79 UG/L U U oropylbenzene 100-41-4 0.74 0.74 UG/L U U oropylbenzene 100-41-4 0.74 0.75 UG/L U U oropylbenzene 100-41-4 0.75 0.55 UG/L U U	omomethane	74-83-9	0.69	0.69	UG/L	U	U	
orobenzene 108-90-7 0.75 0.75 UG/L U U oroethane 75-00-3 0.32 0.32 UG/L U U oroform 67-66-3 0.34 0.34 UG/L U U oromethane 74-87-3 0.35 0.35 UG/L U U 1,2-Dichloroethene 156-59-2 13 1 UG/L U U 1,3-Dichloropropene 10061-01-5 0.36 0.36 UG/L U U clohexane 110-82-7 0.18 0.18 UG/L U U romochloromethane 124-48-1 0.32 0.32 UG/L U U hlorodifluoromethane 75-71-8 0.68 0.68 UG/L U U oropylbenzene 98-82-8 0.79 0.74 UG/L U U thyl acetate 79-20-9 0.5 0.5 UG/L U U	rbon disulfide	75-15-0	0.19	0.19	UG/L	U	U	
oroethane 75-00-3 0.32 0.32 UG/L U U oroform 67-66-3 0.34 0.34 UG/L U U oromethane 74-87-3 0.35 0.35 UG/L U U 1,2-Dichloroethene 156-59-2 13 1 UG/L U U 1,3-Dichloropropene 10061-01-5 0.36 0.36 UG/L U U clohexane 110-82-7 0.18 0.18 UG/L U U oromochloromethane 124-48-1 0.32 0.32 UG/L U U hlorodifluoromethane 75-71-8 0.68 0.68 UG/L U U oropylbenzene 100-41-4 0.74 0.74 UG/L U U oropylbenzene 98-82-8 0.79 0.79 UG/L U U thyl acetate 79-20-9 0.5 0.5 UG/L U U	rbon tetrachloride	56-23-5	0.27	0.27	UG/L	U	U	
oroethane 75-00-3 0.32 0.32 UG/L U U oroform 67-66-3 0.34 0.34 UG/L U U oromethane 74-87-3 0.35 0.35 UG/L U U 1,2-Dichloroethene 156-59-2 13 1 UG/L U U 1,3-Dichloropropene 10061-01-5 0.36 0.36 UG/L U U clohexane 110-82-7 0.18 0.18 UG/L U U oromochloromethane 124-48-1 0.32 0.32 UG/L U U hlorodifluoromethane 75-71-8 0.68 0.68 UG/L U U oropylbenzene 100-41-4 0.74 0.74 UG/L U U oropylbenzene 98-82-8 0.79 0.79 UG/L U U thyl acetate 79-20-9 0.5 0.5 UG/L U U	lorobenzene	108-90-7	0.75	0.75	UG/L	U	U	
oromethane 74-87-3 0.35 0.35 UG/L U U 1,2-Dichloroethene 156-59-2 13 1 UG/L U U 1,3-Dichloropropene 10061-01-5 0.36 0.36 UG/L U U clohexane 110-82-7 0.18 0.18 UG/L U U promochloromethane 124-48-1 0.32 0.32 UG/L U U phlorodifluoromethane 75-71-8 0.68 0.68 UG/L U U pylbenzene 100-41-4 0.74 0.74 UG/L U U propylbenzene 98-82-8 0.79 0.79 UG/L U U thyl acetate 79-20-9 0.5 0.5 UG/L U U	loroethane	75-00-3	0.32	0.32	UG/L	U	U	
1,2-Dichloroethene 156-59-2 13 1 UG/L 1,3-Dichloropropene 10061-01-5 0.36 0.36 UG/L U U clohexane 110-82-7 0.18 0.18 UG/L U U cromochloromethane 124-48-1 0.32 0.32 UG/L U U chlorodifluoromethane 75-71-8 0.68 0.68 UG/L U U cylbenzene 100-41-4 0.74 0.74 UG/L U U cyropylbenzene 98-82-8 0.79 0.79 UG/L U U chlyl acetate 79-20-9 0.5 0.5 UG/L U U	loroform	67-66-3	0.34	0.34	UG/L	U	U	
1,3-Dichloropropene 10061-01-5 0.36 0.36 UG/L U U clohexane 110-82-7 0.18 0.18 UG/L U U promochloromethane 124-48-1 0.32 0.32 UG/L U U phlorodifluoromethane 75-71-8 0.68 0.68 UG/L U U pylbenzene 100-41-4 0.74 0.74 UG/L U U propylbenzene 98-82-8 0.79 0.79 UG/L U U thyl acetate 79-20-9 0.5 0.5 UG/L U U	loromethane	74-87-3	0.35	0.35	UG/L	U	U	
110-82-7 0.18 0.18 UG/L U U U U U U U U U	s-1,2-Dichloroethene	156-59-2	13	1	UG/L			
romochloromethane 124-48-1 0.32 0.32 UG/L U U hlorodifluoromethane 75-71-8 0.68 0.68 UG/L U U ylbenzene 100-41-4 0.74 0.74 UG/L U U propylbenzene 98-82-8 0.79 0.79 UG/L U U thyl acetate 79-20-9 0.5 0.5 UG/L U U	-1,3-Dichloropropene	10061-01-5	0.36	0.36	UG/L	U	U	
romochloromethane 124-48-1 0.32 0.32 UG/L U U hlorodifluoromethane 75-71-8 0.68 0.68 UG/L U U ylbenzene 100-41-4 0.74 0.74 UG/L U U oropylbenzene 98-82-8 0.79 0.79 UG/L U U thyl acetate 79-20-9 0.5 0.5 UG/L U U	clohexane	110-82-7	0.18	0.18	UG/L	U	U	
ylbenzene 100-41-4 0.74 0.74 UG/L U U propylbenzene 98-82-8 0.79 0.79 UG/L U U thyl acetate 79-20-9 0.5 0.5 UG/L U U	bromochloromethane	124-48-1	0.32	0.32	UG/L	U	U	
ylbenzene 100-41-4 0.74 0.74 UG/L U U propylbenzene 98-82-8 0.79 0.79 UG/L U U thyl acetate 79-20-9 0.5 0.5 UG/L U U	chlorodifluoromethane	75-71-8	0.68	0.68	UG/L	U	U	
thyl acetate 79-20-9 0.5 0.5 UG/L U U	hylbenzene	100-41-4	0.74	0.74	UG/L	U	U	
thyl acetate 79-20-9 0.5 0.5 UG/L U U	opropylbenzene						U	
·	lethyl acetate	79-20-9	0.5	0.5			U	
	ethyl tert-butyl ether	1634-04-4				U	U	

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	Analysis	Method	8260C
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Methylcyclohexane	108-87-2	0.16	0.16	UG/L	U	U		
Methylene Chloride	75-09-2	0.44	0.44	UG/L	U	U		
Styrene	100-42-5	0.73	0.73	UG/L	U	U		
Tetrachloroethene	127-18-4	0.36	0.36	UG/L	U	U		
Toluene	108-88-3	0.51	0.51	UG/L	U	U		
trans-1,2-Dichloroethene	156-60-5	0.9	0.9	UG/L	U	U		
trans-1,3-Dichloropropene	10061-02-6	0.37	0.37	UG/L	U	U		
Trichloroethene	79-01-6	110	1	UG/L	Е	R	D	
Trichlorofluoromethane	75-69-4	0.88	0.88	UG/L	U	U		
Vinyl chloride	75-01-4	0.9	0.9	UG/L	U	U		
Xylenes, Total	1330-20-7	0.66	0.66	UG/L	U	U		

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Sample Name:	DUPDL			Matrix:	Water Resi	ult Type: FS	
Lab Sample Name:	480-67864-9DL	Sample 1	Date: 9/23.	/2014	7	/alidation Le	vel: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1-Trichloroethane	71-55-6	1.6	1.6	UG/L	U	R	D
1,1,2,2-Tetrachloroethane	79-34-5	0.42	0.42	UG/L	U	R	D
1,1,2-Trichloro-1,2,2- rifluoroethane	76-13-1	0.62	0.62	UG/L	U	R	D
1,1,2-Trichloroethane	79-00-5	0.46	0.46	UG/L	U	R	D
,1-Dichloroethane	75-34-3	0.76	0.76	UG/L	U	R	D
1,1-Dichloroethene	75-35-4	0.58	0.58	UG/L	U	R	D
,2,4-Trichlorobenzene	120-82-1	0.82	0.82	UG/L	U	R	D
1,2-Dibromo-3-Chloropropan	e 96-12-8	0.78	0.78	UG/L	U	R	D
,2-Dibromoethane	106-93-4	1.5	1.5	UG/L	U	R	D
1,2-Dichlorobenzene	95-50-1	1.6	1.6	UG/L	U	R	D
,2-Dichloroethane	107-06-2	0.42	0.42	UG/L	U	R	D
,2-Dichloropropane	78-87-5	1.4	1.4	UG/L	U	R	D
,3-Dichlorobenzene	541-73-1	1.6	1.6	UG/L	U	R	D
,4-Dichlorobenzene	106-46-7	1.7	1.7	UG/L	U	R	D
2-Butanone	78-93-3	2.6	2.6	UG/L	U	R	D
2-Hexanone	591-78-6	2.5	2.5	UG/L	U	R	D
-Methyl-2-pentanone	108-10-1	4.2	4.2	UG/L	U	R	D
Acetone	67-64-1	6	6	UG/L	U	R	D
Benzene	71-43-2	0.82	0.82	UG/L	U	R	D
Bromodichloromethane	75-27-4	0.78	0.78	UG/L	U	R	D
Bromoform	75-25-2	0.52	0.52	UG/L	U	R	D
Bromomethane	74-83-9	1.4	1.4	UG/L	U	R	D
Carbon disulfide	75-15-0	0.38	0.38	UG/L	U	R	D
Carbon tetrachloride	56-23-5	0.54	0.54	UG/L	U	R	D
Chlorobenzene	108-90-7	1.5	1.5	UG/L	U	R	D
Chloroethane	75-00-3	0.64	0.64	UG/L	U	R	D
Chloroform	67-66-3	0.68	0.68	UG/L	U	R	D
Chloromethane	74-87-3	0.7	0.7	UG/L	U	R	D
eis-1,2-Dichloroethene	156-59-2	12	2	UG/L		R	D
cis-1,3-Dichloropropene	10061-01-5	0.72	0.72	UG/L	U	R	D
Cyclohexane	110-82-7	0.36	0.36	UG/L	U	R	D
Dibromochloromethane	124-48-1	0.64	0.64	UG/L	U	R	D
Dichlorodifluoromethane	75-71-8	1.4	1.4	UG/L	U	R	D
Ethylbenzene	100-41-4	1.5	1.5	UG/L	U	R	D
Isopropylbenzene	98-82-8	1.6	1.6	UG/L	U	R	D
Methyl acetate	79-20-9	1	1	UG/L	U	R	D
Methyl tert-butyl ether	1634-04-4	0.32	0.32	UG/L	U	R	D

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	Analysis	Method	8260C
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Methylcyclohexane	108-87-2	0.32	0.32	UG/L	U	R	D	
Methylene Chloride	75-09-2	0.88	0.88	UG/L	U	R	D	
Styrene	100-42-5	1.5	1.5	UG/L	U	R	D	
Tetrachloroethene	127-18-4	0.72	0.72	UG/L	U	R	D	
Toluene	108-88-3	1	1	UG/L	U	R	D	
trans-1,2-Dichloroethene	156-60-5	1.8	1.8	UG/L	U	R	D	
trans-1,3-Dichloropropene	10061-02-6	0.74	0.74	UG/L	U	R	D	
Trichloroethene	79-01-6	95	2	UG/L				
Trichlorofluoromethane	75-69-4	1.8	1.8	UG/L	U	R	D	
Vinyl chloride	75-01-4	1.8	1.8	UG/L	U	R	D	
Xylenes, Total	1330-20-7	1.3	1.3	UG/L	U	R	D	

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Sample Name:	LVRA08-MNA	GW-MW-2		Matrix: Water Result Type: FS				
Lab Sample Name:	480-67864-6 Sample Date: 9/23/201			14	7	Validation Le	vel: III	
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
,1,1-Trichloroethane	71-55-6	0.82	0.82	UG/L	U	U		
1,2,2-Tetrachloroethane	79-34-5	0.21	0.21	UG/L	U	U		
,1,2-Trichloro-1,2,2- ifluoroethane	76-13-1	0.31	0.31	UG/L	U	U		
,1,2-Trichloroethane	79-00-5	0.23	0.23	UG/L	U	U		
1-Dichloroethane	75-34-3	0.38	0.38	UG/L	U	U		
,1-Dichloroethene	75-35-4	0.4	1	UG/L	J	J		
2,4-Trichlorobenzene	120-82-1	0.41	0.41	UG/L	U	U		
,2-Dibromo-3-Chloropropan	e 96-12-8	0.39	0.39	UG/L	U	U		
2-Dibromoethane	106-93-4	0.73	0.73	UG/L	U	U		
,2-Dichlorobenzene	95-50-1	0.79	0.79	UG/L	U	U		
,2-Dichloroethane	107-06-2	0.21	0.21	UG/L	U	U		
2-Dichloropropane	78-87-5	0.72	0.72	UG/L	U	U		
3-Dichlorobenzene	541-73-1	0.78	0.78	UG/L	U	U		
4-Dichlorobenzene	106-46-7	0.84	0.84	UG/L	U	U		
Butanone	78-93-3	1.3	1.3	UG/L	U	U		
Hexanone	591-78-6	1.2	1.2	UG/L	U	U		
Methyl-2-pentanone	108-10-1	2.1	2.1	UG/L	U	U		
etone	67-64-1	3	3	UG/L	U	U		
enzene	71-43-2	0.41	0.41	UG/L	U	U		
omodichloromethane	75-27-4	0.39	0.39	UG/L	U	U		
romoform	75-25-2	0.26	0.26	UG/L	U	U		
omomethane	74-83-9	0.69	0.69	UG/L	U	U		
arbon disulfide	75-15-0	0.19	0.19	UG/L	U	U		
arbon tetrachloride	56-23-5	0.27	0.27	UG/L	U	U		
nlorobenzene	108-90-7	0.75	0.75	UG/L	U	U		
nloroethane	75-00-3	0.32	0.32	UG/L	U	U		
hloroform	67-66-3	0.34	0.34	UG/L	U	U		
hloromethane	74-87-3	0.35	0.35	UG/L	U	U		
s-1,2-Dichloroethene	156-59-2	24	1	UG/L				
s-1,3-Dichloropropene	10061-01-5	0.36	0.36	UG/L	U	U		
yclohexane	110-82-7	0.18	0.18	UG/L	U	U		
bromochloromethane	124-48-1	0.32	0.32	UG/L	U	U		
ichlorodifluoromethane	75-71-8	0.68	0.68	UG/L	U	U		
thylbenzene	100-41-4	0.74	0.74	UG/L	U	U		
sopropylbenzene	98-82-8	0.79	0.79	UG/L	U	U		
Iethyl acetate	79-20-9	0.5	0.5	UG/L	U	U		
lethyl tert-butyl ether	1634-04-4	0.16	0.16	UG/L	U	U		

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	Analysis	Method	8260C
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Methylcyclohexane	108-87-2	0.16	0.16	UG/L	U	U	
Methylene Chloride	75-09-2	0.44	0.44	UG/L	U	U	
Styrene	100-42-5	0.73	0.73	UG/L	U	U	
Tetrachloroethene	127-18-4	0.36	0.36	UG/L	U	U	
Toluene	108-88-3	0.51	0.51	UG/L	U	U	
trans-1,2-Dichloroethene	156-60-5	0.9	0.9	UG/L	U	U	
trans-1,3-Dichloropropene	10061-02-6	0.37	0.37	UG/L	U	U	
Trichloroethene	79-01-6	42	1	UG/L			
Trichlorofluoromethane	75-69-4	0.88	0.88	UG/L	U	U	
Vinyl chloride	75-01-4	1	1	UG/L			
Xylenes, Total	1330-20-7	0.66	0.66	UG/L	U	U	

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Dichlorodifluoromethane

Ethylbenzene

Isopropylbenzene

Methyl tert-butyl ether

Methyl acetate

75-71-8

100-41-4

98-82-8

79-20-9

1634-04-4

0.68

0.74

0.79

0.5

0.16

0.68

0.74

0.79

0.5

0.16

Sample Name:	LVRA08-MNA	GW-MW-3		Matrix:	Water Res	ult Type: FS	5
Lab Sample Name:	480-67864-1	Sample	Date: 9/23	/2014	•	Validation Le	evel: III
analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
,1-Trichloroethane	71-55-6	0.82	0.82	UG/L	U	U	
,2-Tetrachloroethane	79-34-5	0.21	0.21	UG/L	U	U	
Trichloro-1,2,2- proethane	76-13-1	0.31	0.31	UG/L	U	U	
-Trichloroethane	79-00-5	0.23	0.23	UG/L	U	U	
Dichloroethane	75-34-3	0.38	0.38	UG/L	U	U	
Dichloroethene	75-35-4	0.29	0.29	UG/L	U	U	
-Trichlorobenzene	120-82-1	0.41	0.41	UG/L	U	U	
Dibromo-3-Chloropropane	e 96-12-8	0.39	0.39	UG/L	U	U	
Dibromoethane	106-93-4	0.73	0.73	UG/L	U	U	
Dichlorobenzene	95-50-1	0.79	0.79	UG/L	U	U	
Dichloroethane	107-06-2	0.21	0.21	UG/L	U	U	
Pichloropropane	78-87-5	0.72	0.72	UG/L	U	U	
Dichlorobenzene	541-73-1	0.78	0.78	UG/L	U	U	
Dichlorobenzene	106-46-7	0.84	0.84	UG/L	U	U	
anone	78-93-3	1.3	1.3	UG/L	U	U	
anone	591-78-6	1.2	1.2	UG/L	U	U	
thyl-2-pentanone	108-10-1	2.1	2.1	UG/L	U	U	
one	67-64-1	3	3	UG/L	U	U	
ene	71-43-2	0.41	0.41	UG/L	U	U	
odichloromethane	75-27-4	0.39	0.39	UG/L	U	U	
oform	75-25-2	0.26	0.26	UG/L	U	U	
omethane	74-83-9	0.69	0.69	UG/L	U	U	
n disulfide	75-15-0	0.19	0.19	UG/L	U	U	
on tetrachloride	56-23-5	0.27	0.27	UG/L	U	U	
robenzene	108-90-7	0.75	0.75	UG/L	U	U	
roethane	75-00-3	0.32	0.32	UG/L	U	U	
oform	67-66-3	0.34	0.34	UG/L	U	U	
omethane	74-87-3	0.35	0.35	UG/L	U	U	
,2-Dichloroethene	156-59-2	0.81	0.81	UG/L	U	U	
3-Dichloropropene	10061-01-5	0.36	0.36	UG/L	U	U	
ohexane	110-82-7	0.18	0.18	UG/L	U	U	
omochloromethane	124-48-1	0.32	0.32	UG/L	U	U	
1'0' .1	75 71 0	0.60	0.60	IIO/I	T.T.	TT	

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UG/L

UG/L

UG/L

UG/L

UG/L

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	Analysis	Method	8260C
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Methylcyclohexane	108-87-2	0.16	0.16	UG/L	U	U	
Methylene Chloride	75-09-2	0.44	0.44	UG/L	U	U	
Styrene	100-42-5	0.73	0.73	UG/L	U	U	
Tetrachloroethene	127-18-4	0.36	0.36	UG/L	U	U	
Toluene	108-88-3	0.51	0.51	UG/L	U	U	
trans-1,2-Dichloroethene	156-60-5	0.9	0.9	UG/L	U	U	
trans-1,3-Dichloropropene	10061-02-6	0.37	0.37	UG/L	U	U	
Trichloroethene	79-01-6	2.2	1	UG/L			
Trichlorofluoromethane	75-69-4	0.88	0.88	UG/L	U	U	
Vinyl chloride	75-01-4	0.9	0.9	UG/L	U	U	
Xylenes, Total	1330-20-7	0.66	0.66	UG/L	U	U	

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Sample Name:	LVRA08-MNA	GW-MW-5		Matrix: Water Result Type: FS					
Lab Sample Name:	480-67864-5 Sample Date: 9/23/201			14	4 Validation Level: III				
nalyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
,1-Trichloroethane	71-55-6	0.82	0.82	UG/L	U	U			
2,2-Tetrachloroethane	79-34-5	0.21	0.21	UG/L	U	U			
2-Trichloro-1,2,2- uoroethane	76-13-1	0.31	0.31	UG/L	U	U			
2-Trichloroethane	79-00-5	0.23	0.23	UG/L	U	U			
Dichloroethane	75-34-3	0.38	0.38	UG/L	U	U			
Dichloroethene	75-35-4	0.29	0.29	UG/L	U	U			
-Trichlorobenzene	120-82-1	0.41	0.41	UG/L	U	U			
Dibromo-3-Chloropropan	e 96-12-8	0.39	0.39	UG/L	U	U			
Dibromoethane	106-93-4	0.73	0.73	UG/L	U	U			
Dichlorobenzene	95-50-1	0.79	0.79	UG/L	U	U			
Dichloroethane	107-06-2	0.21	0.21	UG/L	U	U			
Dichloropropane	78-87-5	0.72	0.72	UG/L	U	U			
Dichlorobenzene	541-73-1	0.78	0.78	UG/L	U	U			
chlorobenzene	106-46-7	0.84	0.84	UG/L	U	U			
anone	78-93-3	1.3	1.3	UG/L	U	U			
anone	591-78-6	1.2	1.2	UG/L	U	U			
yl-2-pentanone	108-10-1	2.1	2.1	UG/L	U	U			
ne	67-64-1	3	3	UG/L	U	U			
e	71-43-2	0.41	0.41	UG/L	U	U			
dichloromethane	75-27-4	0.39	0.39	UG/L	U	U			
form	75-25-2	0.26	0.26	UG/L	U	U			
omethane	74-83-9	0.69	0.69	UG/L	U	U			
n disulfide	75-15-0	0.19	0.19	UG/L	U	U			
on tetrachloride	56-23-5	0.27	0.27	UG/L	U	U			
obenzene	108-90-7	0.75	0.75	UG/L	U	U			
oethane	75-00-3	0.32	0.32	UG/L	U	U			
oform	67-66-3	0.34	0.34	UG/L	U	U			
omethane	74-87-3	0.35	0.35	UG/L	U	U			
2-Dichloroethene	156-59-2	0.81	0.81	UG/L	U	U			
3-Dichloropropene	10061-01-5	0.36	0.36	UG/L	U	U			
hexane	110-82-7	0.18	0.18	UG/L	U	U			
mochloromethane	124-48-1	0.32	0.32	UG/L	U	U			
lorodifluoromethane	75-71-8	0.68	0.68	UG/L	U	U			
benzene	100-41-4	0.74	0.74	UG/L	U	U			
ropylbenzene	98-82-8	0.79	0.79	UG/L	U	U			
nyl acetate	79-20-9	0.5	0.5	UG/L	U	U			
yl tert-butyl ether	1634-04-4	0.16	0.16	UG/L	U	U			

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Andivsis member 02000	Analysis	Method	8260C
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Methylcyclohexane	108-87-2	0.16	0.16	UG/L	U	U	
Methylene Chloride	75-09-2	0.44	0.44	UG/L	U	U	
Styrene	100-42-5	0.73	0.73	UG/L	U	U	
Tetrachloroethene	127-18-4	0.36	0.36	UG/L	U	U	
Toluene	108-88-3	0.51	0.51	UG/L	U	U	
trans-1,2-Dichloroethene	156-60-5	0.9	0.9	UG/L	U	U	
trans-1,3-Dichloropropene	10061-02-6	0.37	0.37	UG/L	U	U	
Trichloroethene	79-01-6	0.46	0.46	UG/L	U	U	
Trichlorofluoromethane	75-69-4	0.88	0.88	UG/L	U	U	
Vinyl chloride	75-01-4	0.9	0.9	UG/L	U	U	
Xylenes, Total	1330-20-7	0.66	0.66	UG/L	U	U	

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Sample Name:	LVRA08-MNA	GW-MW-6	j	Matrix:	Water Res	ult Type: FS	3		
Lab Sample Name:	480-67864-4	Sample	Date: 9/23	3/2014	Validation Level: III				
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
1,1,1-Trichloroethane	71-55-6	0.82	0.82	UG/L	U	U			
,1,2,2-Tetrachloroethane	79-34-5	0.21	0.21	UG/L	U	U			
1,1,2-Trichloro-1,2,2- trifluoroethane	76-13-1	0.31	0.31	UG/L	U	U			
1,1,2-Trichloroethane	79-00-5	0.23	0.23	UG/L	U	U			
1,1-Dichloroethane	75-34-3	0.38	0.38	UG/L	U	U			
1,1-Dichloroethene	75-35-4	0.29	0.29	UG/L	U	U			
,2,4-Trichlorobenzene	120-82-1	0.41	0.41	UG/L	U	U			
1,2-Dibromo-3-Chloropropan	e 96-12-8	0.39	0.39	UG/L	U	U			
1,2-Dibromoethane	106-93-4	0.73	0.73	UG/L	U	U			
1,2-Dichlorobenzene	95-50-1	0.79	0.79	UG/L	U	U			
1,2-Dichloroethane	107-06-2	0.21	0.21	UG/L	U	U			
1,2-Dichloropropane	78-87-5	0.72	0.72	UG/L	U	U			
,3-Dichlorobenzene	541-73-1	0.78	0.78	UG/L	U	U			
,4-Dichlorobenzene	106-46-7	0.84	0.84	UG/L	U	U			
2-Butanone	78-93-3	1.3	1.3	UG/L	U	U			
2-Hexanone	591-78-6	1.2	1.2	UG/L	U	U			
-Methyl-2-pentanone	108-10-1	2.1	2.1	UG/L	U	U			
Acetone	67-64-1	3	3	UG/L	U	U			
Benzene	71-43-2	0.41	0.41	UG/L	U	U			
Bromodichloromethane	75-27-4	0.39	0.39	UG/L	U	U			
Bromoform	75-25-2	0.26	0.26	UG/L	U	U			
Bromomethane	74-83-9	0.69	0.69	UG/L	U	U			
Carbon disulfide	75-15-0	0.19	0.19	UG/L	U	U			
Carbon tetrachloride	56-23-5	0.27	0.27	UG/L	U	U			
Chlorobenzene	108-90-7	0.75	0.75	UG/L	U	U			
Chloroethane	75-00-3	0.32	0.32	UG/L	U	U			
Chloroform	67-66-3	0.34	0.34	UG/L	U	U			
Chloromethane	74-87-3	0.35	0.35	UG/L	U	U			
eis-1,2-Dichloroethene	156-59-2	6.5	1	UG/L					
ris-1,3-Dichloropropene	10061-01-5	0.36	0.36	UG/L	U	U			
Cyclohexane	110-82-7	0.18	0.18	UG/L	U	U			
Dibromochloromethane	124-48-1	0.32	0.32	UG/L	U	U			
Dichlorodifluoromethane	75-71-8	0.68	0.68	UG/L	U	U			
Ethylbenzene	100-41-4	0.74	0.74	UG/L	U	U			
Isopropylbenzene	98-82-8	0.79	0.79	UG/L	U	U			
Methyl acetate	79-20-9	0.5	0.5	UG/L	U	U			
Methyl tert-butyl ether	1634-04-4	0.16	0.16	UG/L	U	U			

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	Analysis	Method	8260C
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Methylcyclohexane	108-87-2	0.16	0.16	UG/L	U	U	
Methylene Chloride	75-09-2	0.44	0.44	UG/L	U	U	
Styrene	100-42-5	0.73	0.73	UG/L	U	U	
Tetrachloroethene	127-18-4	0.36	0.36	UG/L	U	U	
Toluene	108-88-3	0.51	0.51	UG/L	U	U	
trans-1,2-Dichloroethene	156-60-5	0.9	0.9	UG/L	U	U	
trans-1,3-Dichloropropene	10061-02-6	0.37	0.37	UG/L	U	U	
Trichloroethene	79-01-6	0.58	1	UG/L	J	J	
Trichlorofluoromethane	75-69-4	0.88	0.88	UG/L	U	U	
Vinyl chloride	75-01-4	0.9	0.9	UG/L	U	U	
Xylenes, Total	1330-20-7	0.66	0.66	UG/L	U	U	

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Sample Name:	LVRA08-MNA	.GW-MW-I	D 1	Matrix:	Water Resi	ult Type: FS	S
Lab Sample Name:	480-67864-2	Sample	Date: 9/23	/2014	•	Validation Le	vel: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
1,1,1-Trichloroethane	71-55-6	0.82	0.82	UG/L	U	U	
1,1,2,2-Tetrachloroethane	79-34-5	0.21	0.21	UG/L	U	U	
1,1,2-Trichloro-1,2,2- rifluoroethane	76-13-1	0.31	0.31	UG/L	U	U	
1,1,2-Trichloroethane	79-00-5	0.23	0.23	UG/L	U	U	
1,1-Dichloroethane	75-34-3	0.38	0.38	UG/L	U	U	
1,1-Dichloroethene	75-35-4	0.29	0.29	UG/L	U	U	
,2,4-Trichlorobenzene	120-82-1	0.41	0.41	UG/L	U	U	
1,2-Dibromo-3-Chloropropan	e 96-12-8	0.39	0.39	UG/L	U	U	
1,2-Dibromoethane	106-93-4	0.73	0.73	UG/L	U	U	
1,2-Dichlorobenzene	95-50-1	0.79	0.79	UG/L	U	U	
1,2-Dichloroethane	107-06-2	0.21	0.21	UG/L	U	U	
,2-Dichloropropane	78-87-5	0.72	0.72	UG/L	U	U	
,3-Dichlorobenzene	541-73-1	0.78	0.78	UG/L	U	U	
,4-Dichlorobenzene	106-46-7	0.84	0.84	UG/L	U	U	
-Butanone	78-93-3	1.3	1.3	UG/L	U	U	
-Hexanone	591-78-6	1.2	1.2	UG/L	U	U	
-Methyl-2-pentanone	108-10-1	2.1	2.1	UG/L	U	U	
Acetone	67-64-1	3	3	UG/L	U	U	
Benzene	71-43-2	0.41	0.41	UG/L	U	U	
Bromodichloromethane	75-27-4	0.39	0.39	UG/L	U	U	
Bromoform	75-25-2	0.26	0.26	UG/L	U	U	
Bromomethane	74-83-9	0.69	0.69	UG/L	U	U	
Carbon disulfide	75-15-0	0.19	0.19	UG/L	U	U	
Carbon tetrachloride	56-23-5	0.27	0.27	UG/L	U	U	
Chlorobenzene	108-90-7	0.75	0.75	UG/L	U	U	
Chloroethane	75-00-3	0.32	0.32	UG/L	U	U	
Chloroform	67-66-3	0.34	0.34	UG/L	U	U	
Chloromethane	74-87-3	0.35	0.35	UG/L	U	U	
is-1,2-Dichloroethene	156-59-2	0.81	0.81	UG/L	U	U	
ris-1,3-Dichloropropene	10061-01-5	0.36	0.36	UG/L	U	U	
Cyclohexane	110-82-7	0.18	0.18	UG/L	U	U	
Dibromochloromethane	124-48-1	0.32	0.32	UG/L	U	U	
Dichlorodifluoromethane	75-71-8	0.68	0.68	UG/L	U	U	
Ethylbenzene	100-41-4	0.74	0.74	UG/L	U	U	
Isopropylbenzene	98-82-8	0.79	0.79	UG/L	U	U	
Methyl acetate	79-20-9	0.5	0.5	UG/L	U	U	
Methyl tert-butyl ether	1634-04-4	0.16	0.16	UG/L	U	U	

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	Analysis	Method	8260C
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Methylcyclohexane	108-87-2	0.16	0.16	UG/L	U	U	
Methylene Chloride	75-09-2	0.44	0.44	UG/L	U	U	
Styrene	100-42-5	0.73	0.73	UG/L	U	U	
Tetrachloroethene	127-18-4	0.36	0.36	UG/L	U	U	
Toluene	108-88-3	0.51	0.51	UG/L	U	U	
trans-1,2-Dichloroethene	156-60-5	0.9	0.9	UG/L	U	U	
trans-1,3-Dichloropropene	10061-02-6	0.37	0.37	UG/L	U	U	
Trichloroethene	79-01-6	3.5	1	UG/L			
Trichlorofluoromethane	75-69-4	0.88	0.88	UG/L	U	U	
Vinyl chloride	75-01-4	0.9	0.9	UG/L	U	U	
Xylenes, Total	1330-20-7	0.66	0.66	UG/L	U	U	

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Sample Name:	LVRA08-MNA	GW-MW-D	D 2	Matrix:	Water Res	ılt Type: FS	
Lab Sample Name:	480-67864-3	Sample 1	Date: 9/23	/2014	•	alidation Level: III	
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier	
1,1,1-Trichloroethane	71-55-6	0.82	0.82	UG/L	U	U	
1,1,2,2-Tetrachloroethane	79-34-5	0.21	0.21	UG/L	U	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0.31	0.31	UG/L	U	U	
1,1,2-Trichloroethane	79-00-5	0.23	0.23	UG/L	U	U	
1,1-Dichloroethane	75-34-3	0.38	0.38	UG/L	U	U	
1,1-Dichloroethene	75-35-4	0.29	0.29	UG/L	U	U	
1,2,4-Trichlorobenzene	120-82-1	0.41	0.41	UG/L	U	U	
1,2-Dibromo-3-Chloropropan	e 96-12-8	0.39	0.39	UG/L	U	U	
1,2-Dibromoethane	106-93-4	0.73	0.73	UG/L	U	U	
1,2-Dichlorobenzene	95-50-1	0.79	0.79	UG/L	U	U	
1,2-Dichloroethane	107-06-2	0.21	0.21	UG/L	U	U	
1,2-Dichloropropane	78-87-5	0.72	0.72	UG/L	U	U	
1,3-Dichlorobenzene	541-73-1	0.78	0.78	UG/L	U	U	
1,4-Dichlorobenzene	106-46-7	0.84	0.84	UG/L	U	U	
2-Butanone	78-93-3	1.3	1.3	UG/L	U	U	
2-Hexanone	591-78-6	1.2	1.2	UG/L	U	U	
4-Methyl-2-pentanone	108-10-1	2.1	2.1	UG/L	U	U	
Acetone	67-64-1	3	3	UG/L	U	U	
Benzene	71-43-2	0.41	0.41	UG/L	U	U	
Bromodichloromethane	75-27-4	0.39	0.39	UG/L	U	U	
Bromoform	75-25-2	0.26	0.26	UG/L	U	U	
Bromomethane	74-83-9	0.69	0.69	UG/L	U	U	
Carbon disulfide	75-15-0	0.19	0.19	UG/L	U	U	
Carbon tetrachloride	56-23-5	0.27	0.27	UG/L	U	U	
Chlorobenzene	108-90-7	0.75	0.75	UG/L	U	U	
Chloroethane	75-00-3	0.32	0.32	UG/L	U	U	
Chloroform	67-66-3	0.34	0.34	UG/L	U	U	
Chloromethane	74-87-3	0.35	0.35	UG/L	U	U	
cis-1,2-Dichloroethene	156-59-2	13	1	UG/L			
cis-1,3-Dichloropropene	10061-01-5	0.36	0.36	UG/L	U	U	
Cyclohexane	110-82-7	0.18	0.18	UG/L	U	U	
Dibromochloromethane	124-48-1	0.32	0.32	UG/L	U	U	
Dichlorodifluoromethane	75-71-8	0.68	0.68	UG/L	U	U	
Ethylbenzene	100-41-4	0.74	0.74	UG/L	U	U	
Isopropylbenzene	98-82-8	0.79	0.79	UG/L	U	U	
Methyl acetate	79-20-9	0.5	0.5	UG/L	U	U	
Methyl tert-butyl ether	1634-04-4	0.16	0.16	UG/L	U	U	

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	Analysis	Method	8260C
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Methylcyclohexane	108-87-2	0.16	0.16	UG/L	U	U		
Methylene Chloride	75-09-2	0.44	0.44	UG/L	U	U		
Styrene	100-42-5	0.73	0.73	UG/L	U	U		
Tetrachloroethene	127-18-4	0.36	0.36	UG/L	U	U		
Toluene	108-88-3	0.51	0.51	UG/L	U	U		
trans-1,2-Dichloroethene	156-60-5	0.9	0.9	UG/L	U	U		
trans-1,3-Dichloropropene	10061-02-6	0.37	0.37	UG/L	U	U		
Trichloroethene	79-01-6	100	1	UG/L	Е	R	D	
Trichlorofluoromethane	75-69-4	0.88	0.88	UG/L	U	U		
Vinyl chloride	75-01-4	0.9	0.9	UG/L	U	U		
Xylenes, Total	1330-20-7	0.66	0.66	UG/L	U	U		

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Sample Name:	LVRA08-MNA	GW-MW-D	D2DL	Matrix:	Water Result Type: FS			
Lab Sample Name:	480-67864-3DL	Sample 1	Date: 9/23/20)14	•	Validation Le	vel: III	
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1,1,1-Trichloroethane	71-55-6	1.6	1.6	UG/L	U	R	D	
1,1,2,2-Tetrachloroethane	79-34-5	0.42	0.42	UG/L	U	R	D	
1,1,2-Trichloro-1,2,2- trifluoroethane	76-13-1	0.62	0.62	UG/L	U	R	D	
1,1,2-Trichloroethane	79-00-5	0.46	0.46	UG/L	U	R	D	
1,1-Dichloroethane	75-34-3	0.76	0.76	UG/L	U	R	D	
1,1-Dichloroethene	75-35-4	0.58	0.58	UG/L	U	R	D	
1,2,4-Trichlorobenzene	120-82-1	0.82	0.82	UG/L	U	R	D	
1,2-Dibromo-3-Chloropropan	e 96-12-8	0.78	0.78	UG/L	U	R	D	
1,2-Dibromoethane	106-93-4	1.5	1.5	UG/L	U	R	D	
1,2-Dichlorobenzene	95-50-1	1.6	1.6	UG/L	U	R	D	
1,2-Dichloroethane	107-06-2	0.42	0.42	UG/L	U	R	D	
1,2-Dichloropropane	78-87-5	1.4	1.4	UG/L	U	R	D	
1,3-Dichlorobenzene	541-73-1	1.6	1.6	UG/L	U	R	D	
1,4-Dichlorobenzene	106-46-7	1.7	1.7	UG/L	U	R	D	
2-Butanone	78-93-3	2.6	2.6	UG/L	U	R	D	
2-Hexanone	591-78-6	2.5	2.5	UG/L	U	R	D	
4-Methyl-2-pentanone	108-10-1	4.2	4.2	UG/L	U	R	D	
Acetone	67-64-1	6	6	UG/L	U	R	D	
Benzene	71-43-2	0.82	0.82	UG/L	U	R	D	
Bromodichloromethane	75-27-4	0.78	0.78	UG/L	U	R	D	
Bromoform	75-25-2	0.52	0.52	UG/L	U	R	D	
Bromomethane	74-83-9	1.4	1.4	UG/L	U	R	D	
Carbon disulfide	75-15-0	0.38	0.38	UG/L	U	R	D	
Carbon tetrachloride	56-23-5	0.54	0.54	UG/L	U	R	D	
Chlorobenzene	108-90-7	1.5	1.5	UG/L	U	R	D	
Chloroethane	75-00-3	0.64	0.64	UG/L	U	R	D	
Chloroform	67-66-3	0.68	0.68	UG/L	U	R	D	
Chloromethane	74-87-3	0.7	0.7	UG/L	U	R	D	
cis-1,2-Dichloroethene	156-59-2	12	2	UG/L		R	D	
cis-1,3-Dichloropropene	10061-01-5	0.72	0.72	UG/L	U	R	D	
Cyclohexane	110-82-7	0.36	0.36	UG/L	U	R	D	
Dibromochloromethane	124-48-1	0.64	0.64	UG/L	U	R	D	
Dichlorodifluoromethane	75-71-8	1.4	1.4	UG/L	U	R	D	
Ethylbenzene	100-41-4	1.5	1.5	UG/L	U	R	D	
Isopropylbenzene	98-82-8	1.6	1.6	UG/L	U	R	D	
Methyl acetate	79-20-9	1.0	1.0	UG/L	U	R	D D	
-							<u> </u>	
Methyl tert-butyl ether	1634-04-4	0.32	0.32	UG/L	U	R	ע	

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	Analysis	Method	8260C
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Methylcyclohexane	108-87-2	0.32	0.32	UG/L	U	R	D	
Methylene Chloride	75-09-2	0.88	0.88	UG/L	U	R	D	
Styrene	100-42-5	1.5	1.5	UG/L	U	R	D	
Tetrachloroethene	127-18-4	0.72	0.72	UG/L	U	R	D	
Toluene	108-88-3	1	1	UG/L	U	R	D	
trans-1,2-Dichloroethene	156-60-5	1.8	1.8	UG/L	U	R	D	
trans-1,3-Dichloropropene	10061-02-6	0.74	0.74	UG/L	U	R	D	
Trichloroethene	79-01-6	100	2	UG/L				
Trichlorofluoromethane	75-69-4	1.8	1.8	UG/L	U	R	D	
Vinyl chloride	75-01-4	1.8	1.8	UG/L	U	R	D	
Xylenes, Total	1330-20-7	1.3	1.3	UG/L	U	R	D	

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Commis Norman	DINCE DI ANIZ			Matrix:	Water D.	ult Type: FS		
Sample Name:	RINSE BLANK					~ ~		
Lab Sample Name:	480-67864-7	Sample 1	Date: 9/23/20	14	7	Validation Level: III		
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes	
1,1,1-Trichloroethane	71-55-6	0.82	0.82	UG/L	U	U		
1,1,2,2-Tetrachloroethane	79-34-5	0.21	0.21	UG/L	U	U		
1,1,2-Trichloro-1,2,2- trifluoroethane	76-13-1	0.31	0.31	UG/L	U	U		
1,1,2-Trichloroethane	79-00-5	0.23	0.23	UG/L	U	U		
1,1-Dichloroethane	75-34-3	0.38	0.38	UG/L	U	U		
1,1-Dichloroethene	75-35-4	0.29	0.29	UG/L	U	U		
1,2,4-Trichlorobenzene	120-82-1	0.41	0.41	UG/L	U	U		
1,2-Dibromo-3-Chloropropar	ne 96-12-8	0.39	0.39	UG/L	U	U		
1,2-Dibromoethane	106-93-4	0.73	0.73	UG/L	U	U		
1,2-Dichlorobenzene	95-50-1	0.79	0.79	UG/L	U	U		
1,2-Dichloroethane	107-06-2	0.21	0.21	UG/L	U	U		
1,2-Dichloropropane	78-87-5	0.72	0.72	UG/L	U	U		
1,3-Dichlorobenzene	541-73-1	0.78	0.78	UG/L	U	U		
1,4-Dichlorobenzene	106-46-7	0.84	0.84	UG/L	U	U		
2-Butanone	78-93-3	1.3	1.3	UG/L	U	U		
2-Hexanone	591-78-6	1.2	1.2	UG/L	U	U		
4-Methyl-2-pentanone	108-10-1	2.1	2.1	UG/L	U	U		
Acetone	67-64-1	3	3	UG/L	U	U		
Benzene	71-43-2	0.41	0.41	UG/L	U	U		
Bromodichloromethane	75-27-4	0.39	0.39	UG/L	U	U		
Bromoform	75-25-2	0.26	0.26	UG/L	U	U		
Bromomethane	74-83-9	0.69	0.69	UG/L	U	U		
Carbon disulfide	75-15-0	0.19	0.19	UG/L	U	U		
Carbon tetrachloride	56-23-5	0.27	0.27	UG/L	U	U		
Chlorobenzene	108-90-7	0.75	0.75	UG/L	U	U		
Chloroethane	75-00-3	0.32	0.32	UG/L	U	U		
Chloroform	67-66-3	0.34	0.34	UG/L	U	U		
Chloromethane	74-87-3	0.35	0.35	UG/L	U	U		
cis-1,2-Dichloroethene	156-59-2	0.81	0.81	UG/L	U	U		
cis-1,3-Dichloropropene	10061-01-5	0.36	0.36	UG/L	U	U		
Cyclohexane	110-82-7	0.18	0.18	UG/L	U	U		
Dibromochloromethane	124-48-1	0.32	0.32	UG/L	U	U		
Dichlorodifluoromethane	75-71-8	0.68	0.68	UG/L	U	U		
Ethylbenzene	100-41-4	0.74	0.74	UG/L	U	U		
Isopropylbenzene	98-82-8	0.79	0.79	UG/L	U	U		
Methyl acetate	79-20-9	0.5	0.5	UG/L	U	U		
Methyl tert-butyl ether	1634-04-4	0.16	0.16	UG/L	U	Ü		

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	Analysis	Method	8260C
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Methylcyclohexane	108-87-2	0.16	0.16	UG/L	U	U	
Methylene Chloride	75-09-2	0.44	0.44	UG/L	U	U	
Styrene	100-42-5	0.73	0.73	UG/L	U	U	
Tetrachloroethene	127-18-4	0.36	0.36	UG/L	U	U	
Toluene	108-88-3	0.51	0.51	UG/L	U	U	
trans-1,2-Dichloroethene	156-60-5	0.9	0.9	UG/L	U	U	
trans-1,3-Dichloropropene	10061-02-6	0.37	0.37	UG/L	U	U	
Trichloroethene	79-01-6	0.46	0.46	UG/L	U	U	
Trichlorofluoromethane	75-69-4	0.88	0.88	UG/L	U	U	
Vinyl chloride	75-01-4	0.9	0.9	UG/L	U	U	
Xylenes, Total	1330-20-7	0.66	0.66	UG/L	U	U	

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Sample Name:	TRIP BLANK	(9-11-14)		Matrix:	Water Res	ult Type: FS			
Lab Sample Name:	480-67864-8	Sample 1	Date: 9/23	/2014	Validation Level: III				
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
1,1,1-Trichloroethane	71-55-6	0.82	0.82	UG/L	U	U			
1,1,2,2-Tetrachloroethane	79-34-5	0.21	0.21	UG/L	U	U			
1,1,2-Trichloro-1,2,2- rifluoroethane	76-13-1	0.31	0.31	UG/L	U	U			
1,1,2-Trichloroethane	79-00-5	0.23	0.23	UG/L	U	U			
1,1-Dichloroethane	75-34-3	0.38	0.38	UG/L	U	U			
1,1-Dichloroethene	75-35-4	0.29	0.29	UG/L	U	U			
,2,4-Trichlorobenzene	120-82-1	0.41	0.41	UG/L	U	U			
1,2-Dibromo-3-Chloropropan	e 96-12-8	0.39	0.39	UG/L	U	U			
1,2-Dibromoethane	106-93-4	0.73	0.73	UG/L	U	U			
1,2-Dichlorobenzene	95-50-1	0.79	0.79	UG/L	U	U			
,2-Dichloroethane	107-06-2	0.21	0.21	UG/L	U	U			
,2-Dichloropropane	78-87-5	0.72	0.72	UG/L	U	U			
,3-Dichlorobenzene	541-73-1	0.78	0.78	UG/L	U	U			
,4-Dichlorobenzene	106-46-7	0.84	0.84	UG/L	U	U			
-Butanone	78-93-3	1.3	1.3	UG/L	U	U			
-Hexanone	591-78-6	1.2	1.2	UG/L	U	U			
-Methyl-2-pentanone	108-10-1	2.1	2.1	UG/L	U	U			
cetone	67-64-1	3	3	UG/L	U	U			
Benzene	71-43-2	0.41	0.41	UG/L	U	U			
Bromodichloromethane	75-27-4	0.39	0.39	UG/L	U	U			
Bromoform	75-25-2	0.26	0.26	UG/L	U	U			
Bromomethane	74-83-9	0.69	0.69	UG/L	U	U			
Carbon disulfide	75-15-0	0.19	0.19	UG/L	U	U			
Carbon tetrachloride	56-23-5	0.27	0.27	UG/L	U	U			
Chlorobenzene	108-90-7	0.75	0.75	UG/L	U	U			
Chloroethane	75-00-3	0.32	0.32	UG/L	U	U			
Chloroform	67-66-3	0.34	0.34	UG/L	U	U			
Chloromethane	74-87-3	0.35	0.35	UG/L	U	U			
is-1,2-Dichloroethene	156-59-2	0.81	0.81	UG/L	U	U			
is-1,3-Dichloropropene	10061-01-5	0.36	0.36	UG/L	U	U			
Cyclohexane	110-82-7	0.18	0.18	UG/L	U	U			
Dibromochloromethane	124-48-1	0.32	0.32	UG/L	U	U			
Dichlorodifluoromethane	75-71-8	0.68	0.68	UG/L	U	U			
Ethylbenzene	100-41-4	0.74	0.74	UG/L	U	U			
Isopropylbenzene	98-82-8	0.79	0.79	UG/L	U	U			
Methyl acetate	79-20-9	0.5	0.5	UG/L	U	U			
Methyl tert-butyl ether	1634-04-4	0.16	0.16	UG/L	U	U			

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	Analysis	Method	8260C
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Methylcyclohexane	108-87-2	0.16	0.16	UG/L	U	U	
Methylene Chloride	75-09-2	0.44	0.44	UG/L	U	U	
Styrene	100-42-5	0.73	0.73	UG/L	U	U	
Tetrachloroethene	127-18-4	0.36	0.36	UG/L	U	U	
Toluene	108-88-3	0.51	0.51	UG/L	U	U	
trans-1,2-Dichloroethene	156-60-5	0.9	0.9	UG/L	U	U	
trans-1,3-Dichloropropene	10061-02-6	0.37	0.37	UG/L	U	U	
Trichloroethene	79-01-6	0.46	0.46	UG/L	U	U	
Trichlorofluoromethane	75-69-4	0.88	0.88	UG/L	U	U	
Vinyl chloride	75-01-4	0.9	0.9	UG/L	U	U	
Xylenes, Total	1330-20-7	0.66	0.66	UG/L	U	U	

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Analysis Method 9060A

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Sample Name:	DUP			Matrix:	Water Resi	ılt Type: FS
Lab Sample Name:	480-67864-9	Sample 1	Date: 9/23	3/2014	V	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Total Organic Carbon	7440-44-0	1.4	1	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-2		Matrix:	Water Resi	ult Type: FS
Lab Sample Name:	480-67864-6	Sample 1	Date: 9/23	3/2014	7	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Total Organic Carbon	7440-44-0	1.6	1	MG/L		
Sample Name:	LVRA08-MNA	AGW-MW-3		Matrix:	Water Resi	ılt Type: FS
Lab Sample Name:	480-67864-1	Sample l	Date: 9/23	3/2014	•	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Total Organic Carbon	7440-44-0	0.43	0.43	MG/L	U	U
Sample Name:	LVRA08-MNA	GW-MW-5		Matrix:	Water Resi	ılt Type: FS
Lab Sample Name:	480-67864-5	Sample l	Date: 9/23	3/2014	7	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Total Organic Carbon	7440-44-0	1.5	1	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-6		Matrix:	Water Resi	ılt Type: FS
Lab Sample Name:	480-67864-4	Sample 1	Date: 9/23	3/2014	•	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Total Organic Carbon	7440-44-0	2.2	1	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-D	01	Matrix:	Water Resi	ılt Type: FS
Lab Sample Name:	480-67864-2	Sample 1	Date: 9/23	3/2014	•	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Total Organic Carbon	7440-44-0	1.2	1	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-D) 2	Matrix:	Water Resi	ılt Type: FS
Lab Sample Name:	480-67864-3	Sample l	Date: 9/23	3/2014	•	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Total Organic Carbon	7440-44-0	0.57	1	MG/L	J	1

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Analysis Method RSK-175

Sample Name:	DUP			Matrix:	Water Resi	ult Type: FS	
Lab Sample Name:	480-67864-9	Sample 1	Date: 9/23	/2014	•	Validation Le	vel: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Ethane	74-84-0	1.5	1.5	UG/L	U	U	
Ethene	74-85-1	1.5	1.5	UG/L	U	U	
Methane	74-82-8	1	1	UG/L	U	U	
Sample Name:	LVRA08-MNA	AGW-MW-2		Matrix:	Water Resi	ult Type: FS	
Lab Sample Name:	480-67864-6	Sample 1	Date: 9/23	/2014	7	Validation Le	vel: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Ethane	74-84-0	1.5	1.5	UG/L	U	U	
Ethene	74-85-1	1.5	1.5	UG/L	U	U	
Methane	74-82-8	35	4	UG/L			
Sample Name:	LVRA08-MNA	AGW-MW-3		Matrix:	Water Resi	ult Type: FS	
Lab Sample Name:	480-67864-1	Sample 1	Date: 9/23	/2014	7	Validation Le	vel: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Ethane	74-84-0	1.5	1.5	UG/L	U	U	
Ethene	74-85-1	1.5	1.5	UG/L	U	U	
Methane	74-82-8	1	1	UG/L	U	U	
Sample Name:	LVRA08-MNA	AGW-MW-5		Matrix:	Water Resi	ult Type: FS	
Lab Sample Name:	480-67864-5	Sample 1	Date: 9/23	/2014	V	Validation Le	vel: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Ethane	74-84-0	1.5	1.5	UG/L	U	U	
Ethene	74-85-1	1.5	1.5	UG/L	U	U	
Methane	74-82-8	1	1	UG/L	U	U	
Sample Name:	LVRA08-MNA	AGW-MW-6		Matrix:	Water Resi	ult Type: FS	
Lab Sample Name:	480-67864-4	Sample 1	Date: 9/23	/2014	V	Validation Le	vel: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Ethane	74-84-0	1.5	1.5	UG/L	U	U	
	74-85-1	1.5	1.5	UG/L	U	U	
Ethene	74-63-1	1.3	1.3	UU/L	U	U	

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Analysis Method RSK-175

Sample Name:	LVRA08-MNA	AGW-MW-D	D 1	Matrix:	Water Resi	ult Type: FS	3
Lab Sample Name:	480-67864-2	Sample 1	Date: 9/23	3/2014	•	Validation Le	vel: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Ethane	74-84-0	1.5	1.5	UG/L	U	U	
Ethene	74-85-1	1.5	1.5	UG/L	U	U	
Methane	74-82-8	1	1	UG/L	U	U	
Sample Name:	LVRA08-MNA	AGW-MW-D	02	Matrix:	Water Resi	ult Type: FS	3
Lab Sample Name:	480-67864-3	Sample 1	Date: 9/23	3/2014	•	Validation Le	vel: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Ethane	74-84-0	1.5	1.5	UG/L	U	U	
Ethene	74-85-1	1.5	1.5	UG/L	U	U	
Methane	74-82-8	1	1	UG/L	U	U	

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Analysis Method SM 2320B

Sample Name:	DUP			Matrix:	Water Resu	ılt Type: FS
Lab Sample Name:	480-67864-9	Sample I	Date: 9/23	/2014	v	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Alkalinity, Total	STL00171	160	5	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-2		Matrix:	Water Resu	ılt Type: FS
Lab Sample Name:	480-67864-6	Sample I	Date: 9/23	/2014	v	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Alkalinity, Total	STL00171	194	5	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-3		Matrix:	Water Resu	ult Type: FS
Lab Sample Name:	480-67864-1	Sample I	Date: 9/23	/2014	v	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Alkalinity, Total	STL00171	167	5	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-5		Matrix:	Water Resu	ılt Type: FS
Lab Sample Name:	480-67864-5	Sample I	Date: 9/23	/2014	V	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Alkalinity, Total	STL00171	67	5	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-6		Matrix:	Water Resu	ult Type: FS
Lab Sample Name:	480-67864-4	Sample I	Date: 9/23	/2014	v	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Alkalinity, Total	STL00171	79.2	5	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-D	1	Matrix:	Water Resu	ult Type: FS
Lab Sample Name:	480-67864-2	Sample I	Date: 9/23	/2014	v	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Alkalinity, Total	STL00171	151	5	MG/L		
Sample Name:	LVRA08-MNA	GW-MW-D	02	Matrix:	Water Resu	ılt Type: FS
Lab Sample Name:	480-67864-3	Sample I	Date: 9/23	/2014	V	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Alkalinity, Total	STL00171	154	5	MG/L		

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Analysis Method SM 3500 FE D

Analyte: CAS No	Sample Name:	DUP		м	[atriv•	Water Ross	ılt Type: FS	<u> </u>	
CAS No	•		Commits De		au IX.				
Value	Lab Sample Name:	480-07804-9	Sample Da	ite: 9/23/2014		`	'alidation Le	vel: III	
LVRA08-MNAGW-MW-2 Matrix: Water Result Type: FS	Analyte:	CAS No						Validation Notes	
Lab Sample Name: 480-67864-6 Sample Date: 9/23/2014 Validation Level:	Ferrous Iron, Dissolved	15438-31-0	0.075	0.075 N	IG/L	U HF	R	Н	
CAS No	Sample Name:	LVRA08-MNA	GW-MW-2	M	latrix:	Water Resu	ılt Type: FS	}	
Value	Lab Sample Name:	480-67864-6	Sample Da	ite: 9/23/2014		V	alidation Le	vel: III	
LVRA08-MNAGW-MW-3 Matrix: Water Result Type: FS	Analyte:	CAS No						Validation Notes	
Lab Sample Name: 480-67864-1 Sample Date: 9/23/2014 Validation Level: III	Ferrous Iron, Dissolved	15438-31-0	0.075	0.075 N	/IG/L	U HF	UJ	Н	
Analyte: CAS No Result Value CAS No Result Value CAS No Result Value CAS No Result CAS N	Sample Name:	LVRA08-MNA	GW-MW-3	M	latrix:	Water Resu	ılt Type: FS	1	
Value Units Qualifier Qualifier Qualifier Perrous Iron, Dissolved LVRA08-MNAGW-MW-5 LVRA08-MNAGW-MW-5 LVRA08-MNAGW-MW-5 LAB Sample Name: CAS No Result Value Result Units Qualifier Validation Level: III Analyte: CAS No Result Value Result Units Result Units Result Units Result Units Validation Validation Notes Validation Notes Validation Notes Validation Notes Validation Notes Validation Notes Validation Level: III Analyte: CAS No Result Value Result Validation Level: III Analyte: CAS No Result Value Result Validation Validation Notes Validation Level: III Analyte: CAS No Result Value Validation Validation Notes Validation Level: III Analyte: CAS No Result RE Result Validation Level: III Analyte: CAS No Result RE Result Validation Level: III Analyte: Validation Level: III Analyte: Validation Level: III	Lab Sample Name:	480-67864-1	Sample Da	te: 9/23/2014		V	alidation Le	vel: III	
Sample Name: LVRA08-MNAGW-MW-5 Lab Sample Name: 480-67864-5 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Value Units Qualifier Validation Notes Validation Level: III Sample Name: LVRA08-MNAGW-MW-6 Matrix: Water Result Type: FS Lab Sample Name: 480-67864-4 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Result Lab Validation Validation Notes Value Value Validation Notes Validation Notes Validation Notes Validation Notes Validation Notes Validation Level: III Sample Name: LVRA08-MNAGW-MW-D1 Matrix: Water Result Type: FS Lab Sample Name: 480-67864-2 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Result Lab Validation Validation Notes Validation Level: III Analyte: CAS No Result RL Result Lab Validation Validation Notes Validation Notes	Analyte:	CAS No						Validation Notes	
Lab Sample Name: 480-67864-5 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Value Units Qualifier Qualifier Ferrous Iron, Dissolved 15438-31-0 0.075 0.075 MG/L U HF UJ H Sample Name: LVRA08-MNAGW-MW-6 Matrix: Water Result Type: FS Lab Sample Name: 480-67864-4 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Result Lab Validation Validation Notes Qualifier Ferrous Iron, Dissolved 15438-31-0 0.075 0.075 MG/L U HF UJ H Sample Name: LVRA08-MNAGW-MW-D1 Matrix: Water Result Type: FS Lab Sample Name: LVRA08-MNAGW-MW-D1 Matrix: Water Result Type: FS Lab Sample Name: LVRA08-MNAGW-MW-D1 Matrix: Water Result Type: FS Lab Sample Name: 480-67864-2 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Result Lab Validation Validation Notes	Ferrous Iron, Dissolved	15438-31-0	0.075	0.075 N	/IG/L	U HF	UJ	Н	
Analyte: CAS No Result Value RL Units Qualifier Qualifier Qualifier Qualifier Qualifier Validation Notes Perrous Iron, Dissolved I 5438-31-0 0.075 0.075 MG/L U HF UJ H Sample Name: LVRA08-MNAGW-MW-6 Matrix: Water Result Type: FS Lab Sample Name: CAS No Result Validation Level: III Analyte: CAS No Result Value Result Units Qualifier Validation Level: III Matrix: Water Result Units Validation Validation Notes Validation Level: III Natrix: Water Result Type: FS Lab Sample Name: LVRA08-MNAGW-MW-D1 Matrix: Water Result Type: FS Validation Level: III Analyte: CAS No Result RL Result Lab Validation Validation Notes	Sample Name:	LVRA08-MNA	GW-MW-5	M	latrix:	Water Resu	ılt Type: FS	}	
Value Units Qualifier Qualifier Qualifier Qualifier Qualifier Value Units Qualifier Qualifier Qualifier Qualifier Qualifier Qualifier Value Natrix: Water Result Type: FS Lab Sample Name: LVRA08-MNAGW-MW-6 Analyte: CAS No Result Value Validation Level: III Result Units Qualifier Qualifier Qualifier Qualifier Validation Notes Validation Level: III Natrix: Water Result Type: FS Lab Sample Name: LVRA08-MNAGW-MW-D1 Matrix: Water Result Type: FS Lab Sample Name: 480-67864-2 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RESUlt Result Validation Validation Notes	Lab Sample Name:	480-67864-5	Sample Da	te: 9/23/2014		V	alidation Le	vel: III	
Sample Name: LVRA08-MNAGW-MW-6 Matrix: Water Result Type: FS Lab Sample Name: 480-67864-4 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Result Lab Validation Validation Notes Value Units Qualifier Qualifier Ferrous Iron, Dissolved 15438-31-0 0.075 0.075 MG/L U HF UJ H Sample Name: LVRA08-MNAGW-MW-D1 Matrix: Water Result Type: FS Lab Sample Name: 480-67864-2 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Result Lab Validation Validation Notes	Analyte:	CAS No						Validation Notes	
Lab Sample Name: 480-67864-4 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Validation Validation Notes Value Units Qualifier Qualifier Ferrous Iron, Dissolved 15438-31-0 0.075 0.075 MG/L U HF UJ H Sample Name: LVRA08-MNAGW-MW-D1 Matrix: Water Result Type: FS Lab Sample Name: 480-67864-2 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Result Lab Validation Validation Notes	Ferrous Iron, Dissolved	15438-31-0	0.075	0.075 N	/IG/L	U HF	UJ	Н	
Analyte: CAS No Result Value Result Units Qualifier Validation Notes Qualifier Validation Notes Qualifier Ferrous Iron, Dissolved 15438-31-0 0.075 0.075 MG/L U HF UJ H Sample Name: LVRA08-MNAGW-MW-D1 Matrix: Water Result Type: FS Validation Level: III Analyte: CAS No Result RESUlt Result Lab Validation Validation Notes	Sample Name:	LVRA08-MNA	GW-MW-6	M	latrix:	Water Resu	ılt Type: FS	}	
Value Units Qualifier Qualifier Ferrous Iron, Dissolved 15438-31-0 0.075 0.075 MG/L U HF UJ H Sample Name: LVRA08-MNAGW-MW-D1 Matrix: Water Result Type: FS Lab Sample Name: 480-67864-2 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Result Lab Validation Validation Notes	Lab Sample Name:	480-67864-4	Sample Da	te: 9/23/2014		V	alidation Le	vel: III	
Sample Name: LVRA08-MNAGW-MW-D1 Matrix: Water Result Type: FS Lab Sample Name: 480-67864-2 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Result Lab Validation Validation Notes	Analyte:	CAS No						Validation Notes	
Lab Sample Name: 480-67864-2 Sample Date: 9/23/2014 Validation Level: III Analyte: CAS No Result RL Result Lab Validation Validation Notes	Ferrous Iron, Dissolved	15438-31-0	0.075	0.075 N	/IG/L	U HF	UJ	Н	
Analyte: CAS No Result RL Result Lab Validation Validation Notes	Sample Name:	LVRA08-MNA	GW-MW-D1	M	latrix:	Water Resu	ılt Type: FS		
	Lab Sample Name:	480-67864-2	Sample Da	te: 9/23/2014		V	alidation Le	vel: III	
	Analyte:	CAS No						Validation Notes	
Gerrous Iron, Dissolved 15438-31-0 0.075 0.075 MG/L U HF UJ H	Ferrous Iron, Dissolved	15438-31-0	0.075	0.075 N	/IG/L	U HF	UJ	Н	
Sample Name: LVRA08-MNAGW-MW-D2 Matrix: Water Result Type: FS	Sample Name:	LVRA08-MNA	GW-MW-D2	M	latrix:	Water Resu	ılt Type: FS		
Lab Sample Name: 480-67864-3 Sample Date: 9/23/2014 Validation Level: III	Lab Sample Name:	480-67864-3	Sample Da	ete: 9/23/2014		V	alidation Le	vel: III	
Analyte: CAS No Result RL Result Lab Validation Validation Notes Value Units Qualifier Qualifier	Analyte:	CAS No						Validation Notes	
Ferrous Iron, Dissolved 15438-31-0 0.075 0.075 MG/L U HF UJ H	Ferrous Iron, Dissolved	15438-31-0	0.075	0.075 N	/IG/L	U HF	UJ	Н	

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Sample Name:	DUP			Matrix:	Water Res	ult Type: FS
Lab Sample Name:	480-67864-9	Sample 1	Date: 9/23/	2014	•	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Sulfide	18496-25-8	0.67	0.67	MG/L	U	U
Sample Name:	LVRA08-MNA	.GW-MW-2		Matrix:	Water Res	ılt Type: FS
Lab Sample Name:	480-67864-6	Sample 1	Date: 9/23/	2014	•	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Sulfide	18496-25-8	0.67	0.67	MG/L	U	U
Sample Name:	LVRA08-MNA	GW-MW-3		Matrix:	Water Res	ult Type: FS
Lab Sample Name:	480-67864-1	Sample 1	Date: 9/23/	2014	•	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Sulfide	18496-25-8	0.67	0.67	MG/L	U	U
Sample Name:	LVRA08-MNA	.GW-MW-5		Matrix:	Water Res	ılt Type: FS
Lab Sample Name:	480-67864-5	Sample 1	Date: 9/23/	2014	•	alidation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Sulfide	18496-25-8	0.67	0.67	MG/L	U	U
Sample Name:	LVRA08-MNA	GW-MW-6		Matrix:	Water Res	ılt Type: FS
Lab Sample Name:	480-67864-4	Sample 1	Date: 9/23/	2014	•	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
Sulfide	18496-25-8	0.67	0.67	MG/L	U	U
Sample Name:	LVRA08-MNA	GW-MW-D	01	Matrix:	Water Res	ılt Type: FS
Lab Sample Name:	480-67864-2	Sample 1	Date: 9/23/	2014	•	Validation Level: III
Analyte:	CAS No	Result Value	RL	Result Units	Lab Qualifier	Validation Validation Notes Qualifier
		, шис				
Sulfide	18496-25-8	0.67	0.67	MG/L	U	U
Sulfide Sample Name:	18496-25-8 LVRA08-MNA	0.67		MG/L Matrix:		U ult Type: FS
		0.67 GW-MW-D		Matrix:	Water Res	
-	LVRA08-MNA	0.67 GW-MW-D)2	Matrix:	Water Res	ılt Type: FS

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