



GTE Operations Support Incorporated
One Verizon Way (VC34W414)
Basking Ridge, New Jersey 07920-1097

November 18, 2013

Mr. Thomas Festa
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, NY 12233-7017

Re: *September 2013 Semi-Annual Groundwater Sampling Event*

Dear Mr. Festa:

Attached are the September 2013 semi-annual groundwater sampling results for the Former Philips Display Components Facility in Seneca Falls, New York (Site). Chlorinated volatile organic compounds, primarily trichloroethene and cis-1,2-dichloroethene, were reported in select groundwater samples at concentrations greater than New York State Department of Environmental Conservation (NYSDEC) Class GA Standards.

The next semi-annual groundwater sampling event is tentatively scheduled for the week of March 17, 2014.

Please call me at (908) 559-3691 if you have any questions.

Sincerely,

Pam M. Cox /MAF

Pam M. Cox, PG, CHMM
Manager – Corporate Workplace Safety &
Environmental Compliance

ec:

Ms. Denise Radtke (NYSDEC)
Ms. Melissa A. Menetti (New York State Department of Health)
Mr. Nidal Azzam (USEPA)
Mr. Sam Ezekwo (USEPA)
Ms. Patricia Jones (Seneca County Industrial Development Agency)
Mr. Matt Dukat (H.P. Neun)
Mr. Michael Hanna (Seneca Falls Specialty Company)
Mr. Ray Larkin (Environmental Consultant)
Ms. Marzi Sharfaei (ARCADIS U.S., Inc.)
Mr. Daniel Lang (ARCADIS U.S., Inc.)

September 2013 Semi-Annual Groundwater Sampling

On September 17, 2013, ARCADIS U.S., Inc. measured depth to water in 17 monitoring wells and retrieved the March 26, 2013 passive diffusion bags (PDBs) from 14 monitoring wells (Figure 1). Following PDB retrieval, groundwater samples were collected for volatile organic compound (VOC) analysis. Samples were collected from nine shallow monitoring wells (MW-1, MW-20, MW-22 through MW-26, MW-28 and MW-29), one weathered bedrock monitoring well (MW-BR-06), and four bedrock monitoring wells (MW-BR-01, MW-BR-02, MW-BR-04 and MW-BR-05). One trip blank and one duplicate sample were collected. The samples were shipped overnight to TestAmerica Laboratories, Inc. of Buffalo, NY. The samples were analyzed for VOCs using United States Environmental Protection Agency Method 8260B. Data Validation Services, Inc. of North Creek, New York performed third-party data validation. Sample results are usable as reported or with minor qualification (Attachment).

Table 1 provides depth to water measurements. Table 2 provides the September 2013 groundwater analytical and quality assurance/quality control results. VOC concentrations in the September 2013 samples were compared to the New York State Department of Environmental Conservation (NYSDEC) Class GA Standards.

- Trichloroethene (TCE) and/or *cis*-1,2-dichloroethene (*cis*-1,2-DCE) were reported at concentrations greater than the NYSDEC Class GA Standard of 5 micrograms per liter (µg/l) in samples from monitoring wells MW-22 through MW-26, MW-28, MW-29, and MW-BR-06 and in the duplicate sample from monitoring well MW-25.
- Vinyl chloride was reported in the samples from monitoring wells MW-20, MW-24, MW-26 and MW-29 at concentrations greater than the NYSDEC Class GA Standard of 2 µg/l.
- 1,1-dichloroethane (1,1-DCA) was reported at concentrations greater than the NYSDEC Class GA Standard of 5 µg/l in the sample and duplicate from monitoring well MW-25.
- 1,1,1-Trichloroethane was reported at a concentration greater than the NYSDEC Class GA Standard of 5 µg/l in the sample from monitoring well MW-1.
- Tetrachloroethene was reported in the sample from monitoring well MW-22 at a concentration greater than the NYSDEC Class GA Standard of 5 µg/l.

On September 17, 2013, after groundwater samples were collected, new PDBs were deployed in the eight wells scheduled for groundwater sampling in March 2014. The PDBs were installed in the middle of the well screen.

Figures

Figure 1 – Monitoring Well Locations

Tables

Table 1 – Depth to Water Measurements

Table 2 – Groundwater Analytical Results (September 2013)

Attachment

Data Validation Report

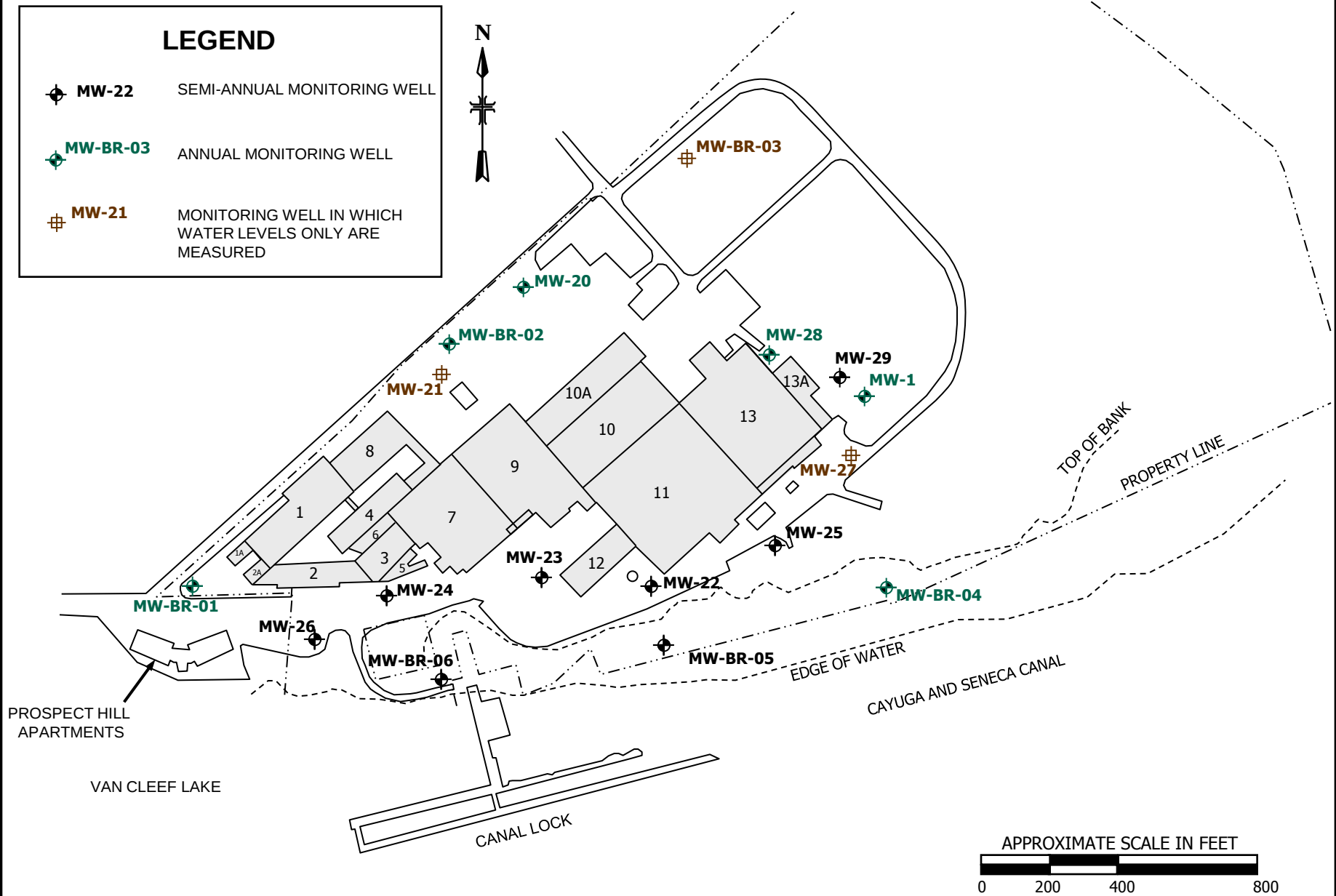
Figures

LEGEND

 **MW-22** SEMI-ANNUAL MONITORING WELL

 **MW-BR-03** ANNUAL MONITORING WELL

 **MW-21** MONITORING WELL IN WHICH WATER LEVELS ONLY ARE MEASURED



FORMER PHILIPS DISPLAY COMPONENTS FACILITY
SENECA FALLS, NEW YORK

MONITORING WELL LOCATIONS

FIGURE 1

Tables

Table 1
Depth to Water Measurements
Former Philips Display Components Facility
Seneca Falls, New York

Well Number	Datum Elevation	Depth to Water (feet)	Water Level Elevation (feet AMSL)
MW-1	460.83	11.87	448.96
MW-20	463.42	2.11	461.31
MW-21	467.39	2.40	464.99
MW-22	460.77	6.72	454.05
MW-23	460.59	2.46	458.13
MW-24	462.76	3.58	459.18
MW-25	460.74	4.37	456.37
MW-26	458.80	5.49	453.31
MW-27	460.45	4.43	456.02
MW-28	461.26	7.69	453.57
MW-29	459.89	10.22	449.67
MW-BR-01	462.64	34.29	428.35
MW-BR-02	467.87	30.48	437.39
MW-BR-03	457.06	20.97	436.09
MW-BR-04	396.39	NA	Artesian
MW-BR-05	401.34	19.30	382.04
MW-BR-06	436.30	35.02	401.28

Notes:

AMSL - Above mean sea level

Depth to water measurements were recorded September 17, 2013.

Table 2
Groundwater Analytical Results (September 2013)
Former Philips Display Components Facility
Seneca Falls, New York

VOCs	CAS #	NYS Class GA Standard	MW-1	MW-20	MW-22	MW-23	MW-24	MW-25	MW-25 DUPLICATE	MW-26	MW-28	MW-29	MW-BR-01	MW-BR-02	MW-BR-04	MW-BR-05	MW-BR-06	TRIP BLANK
1,1,1-Trichloroethane	71-55-6	5	5.5	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	79-34-5	5	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	79-00-5	1	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	75-34-3	5	4.3 J	5.0 U	5.0 U	200 U	2000 U	21 J	17 J	25 U	5.0 U	0.94 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	75-35-4	5	0.7 J	5.0 U	5.0 U	200 U	2000 U	4.1 J	2.1 J	2.3 J	5.0 U	0.38 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	107-06-2	0.6	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	78-87-5	1	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	591-78-6	50	10 U	10 U	10 U	400 U	4000 U	50 U	40 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	67-64-1	50	10 U	4.6 J	10 U	400 UJ	4000 U	50 U	40 U	50 U	10 U	10 U	10 U	10 U	6.8 J	10 U	10 U	10 U
Benzene	71-43-2	1	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	75-27-4	50	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	75-25-2	50	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 UJ	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane	74-83-9	5	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 UJ	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	75-15-0	60	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	56-23-5	5	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	108-90-7	5	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	75-00-3	5	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 UJ	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	67-66-3	7	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane	74-87-3	5	5.0 U	5.0 U	5.0 U	200 UJ	2000 U	25 U	20 UJ	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	156-59-2	5	1.1 J	5.0 U	13.0	300	24000	220	210	210	5.0 U	140	5.0 U	5.0 U	5.0 U	5.0 U	9.6	5.0 U
cis-1,3-Dichloropropene	10061-01-5	0.4	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	124-48-1	50	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	75-71-8	5	5.0 U	5.0 U	5.0 U	200 UJ	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	100-41-4	5	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)	78-93-3	50	10 U	10 U	10 U	400 U	4000 U	50 U	40 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	108-10-1	5	10 U	10 U	10 U	400 U	4000 U	50 U	40 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	75-09-2	5	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	100-42-5	5	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	127-18-4	5	5.0 U	5.0 U	5.7	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	108-88-3	5	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	156-60-5	5	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	0.96 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	10061-02-6	0.4	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	79-01-6	5	5.0 U	5.0 U	5.0 U	2300	2000 U	13 J	11 J	140	12	0.73 J	5.0 U	5.0 U	5.0 U	5.0 U	9.3	5.0 U
Trichlorofluoromethane	75-69-4	5	5.0 U	5.0 U	5.0 U	200 UJ	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl acetate	108-05-4	5	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	75-01-4	2	5.0 U	2.2 J	5.0 U	200 U	1900 J	25 U	20 U	22 J	5.0 U	13	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylenes, Total	1330-20-7	5	5.0 U	5.0 U	5.0 U	200 U	2000 U	25 U	20 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U

NOTES:

Bolded results were greater than the NYSDEC Class GA Standards
All values are shown in units of micrograms per liter (ug/L).

U - Not detected. Reporting limit shown.

J - Estimated

UJ - Not detected; the associated reported quantitation limit is estimated.

Data Validation Report

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

October 28, 2013

Mark Flusche
ARCADIS Malcolm Pirnie, Inc.
855 Route 146 Suite 210
Clifton Park, NY 12065

RE: Validation of GTE-OSI--Seneca Falls, NY Site Data Package-Groundwaters
TAL-Buffalo SDG No. 480-46155-1

Dear Mr. Flusche:

Review has been completed for the data package generated by TestAmerica Laboratories that pertains to samples collected 09/17/13 at the GTE-OSI--Seneca Falls, NY site. Fourteen aqueous samples, a field duplicate, and a trip blank were analyzed for volatiles by USEPA SW846 method 8260B.

Data validation was performed with guidance from the USEPA Region II validation SOP HW-6, the USEPA National Functional Guidelines for CLP Organic Data Review, and the specific requirements of the analytical methodologies. The data packages were reviewed for the following items:

- * Data Completeness
- * Case Narrative
- * Custody Documentation
- * Holding Times
- * Surrogate Standard Recoveries
- * Matrix Spike Evaluations
- * Blind Field Duplicate Correlations
- * Blank Contamination
- * Laboratory Control Samples (LCSs)
- * Calibration Standard Responses
- * Internal Standard Responses
- * Method Compliance
- * Sample Results Verification

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results of validated sample analytes are substantiated by the raw data, and generated in compliance with project requirements.

In summary, samples were generally processed in compliance with stated protocols. Field sample results are usable either as reported or with minor qualification.

Copies of the sample identifications and laboratory case narrative are attached to this text, and should be reviewed in conjunction with this report. Also included are laboratory results forms with recommended qualifications applied in red ink.

VOA Analyses by EPA 8260B

Results for analytes initially reported with the "E" flag have been derived from the dilution analyses of the samples.

Matrix spikes (MSs) of MW-23 and MW-24 show recoveries and correlations that are within laboratory guidelines for the twelve evaluated analytes, with the exception of one low recovery (65%) for cis-1,2-dichloroethene in MW-24. LCS recoveries of those twelve analytes are within required ranges. The analytical protocol requires that all analytes be evaluated in MSs and LCSs.

The blind field duplicate correlations of MW-25 are acceptable.

Due to the presence in the associated method blank, detections of carbon disulfide in the project samples are considered external contamination and edited to reflect to non-detection.

Calibration standards show acceptable responses, with the exceptions of those for the following compounds in the continuing calibration standards associated with the indicated samples:

- chloromethane, bromomethane, chloroethane, and bromoform (27%D to 38%D) in DUP
- dichlorodifluoromethane, chloromethane, trichlorofluoromethane, and acetone (21%D to 28%D) in MW-23

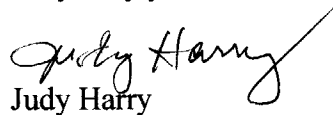
Surrogate and internal standard responses are within required range, and holding times were met.

Some of the samples were processed at initial dilution due to high concentrations of target analytes. Reporting limits for non-detected analytes in those samples are therefore proportionally elevated.

Dilution factors are present on the run logs and raw instrument data, but the actual sample volumes used to derive the dilution factors used in the calculations are not recorded, and the dilution factors therefore cannot be independently verified.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,


Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

U The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.

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

UJ The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise.

NJ The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.

R The data are unusable. The analyte may or may not be present.

EMPC The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

**CLIENT and LABORATORY SAMPLE IDs
and LABORATORY CASE NARRATIVE**

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-46155-1	MW-20	Water	09/17/2013 1050	09/19/2013 0900
480-46155-2	MW-BR-02	Water	09/17/2013 1140	09/19/2013 0900
480-46155-3	MW-BR-01	Water	09/17/2013 1200	09/19/2013 0900
480-46155-4	MW-26	Water	09/17/2013 1220	09/19/2013 0900
480-46155-5	MW-BR-06	Water	09/17/2013 1330	09/19/2013 0900
480-46155-6	MW-23	Water	09/17/2013 1345	09/19/2013 0900
480-46155-7	MW-24	Water	09/17/2013 1430	09/19/2013 0900
480-46155-7MS	MW-24	Water	09/17/2013 1430	09/19/2013 0900
480-46155-7MSD	MW-24	Water	09/17/2013 1430	09/19/2013 0900
480-46155-8	MW-22	Water	09/17/2013 1500	09/19/2013 0900
480-46155-9	MW-25	Water	09/17/2013 1530	09/19/2013 0900
480-46155-10	DUP	Water	09/17/2013 0000	09/19/2013 0900
480-46155-11	MW-28	Water	09/17/2013 1600	09/19/2013 0900
480-46155-12	MW-29	Water	09/17/2013 1615	09/19/2013 0900
480-46155-13	MW-1	Water	09/17/2013 1635	09/19/2013 0900
480-46155-14	MW-BR-04	Water	09/17/2013 1700	09/19/2013 0900
480-46155-15	MW-BR-05	Water	09/17/2013 1715	09/19/2013 0900
480-46155-16	TRIP BLANK	Water	09/17/2013 0000	09/19/2013 0900

Job Narrative
480-46155-1

Comments

No additional comments.

Receipt

The samples were received on 9/19/2013 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-24 (480-46155-7), MW-24 (480-46155-7 MS), MW-24 (480-46155-7 MSD), MW-25 (480-46155-9), MW-26 (480-46155-4). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The method blank for batch 140231 contained Carbon Disulfide above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260B: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: (480-46155-6 MS), (480-46155-6 MSD), MW-23 (480-46155-6), MW-29 (480-46155-12). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: DUP (480-46155-10). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 140231 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

QUALIFIED RESULTS FORMS

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-20

Lab Sample ID: 480-46155-1

Date Sampled: 09/17/2013 1050

Client Matrix: Water

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32427.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 1450			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 1450				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	4.6	J	3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND	J-B	0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	ND		0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND		0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	ND		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	2.2	J	0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		66 - 137
Toluene-d8 (Surr)	101		71 - 126
4-Bromofluorobenzene (Surr)	101		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-BR-02

Lab Sample ID: 480-46155-2

Client Matrix: Water

Date Sampled: 09/17/2013 1140

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32428.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 1515			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 1515				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	ND		0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND		0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	ND		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
Toluene-d8 (Surr)	98		71 - 126
4-Bromofluorobenzene (Surr)	99		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-BR-01

Lab Sample ID: 480-46155-3

Client Matrix: Water

Date Sampled: 09/17/2013 1200

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method: 8260B
Prep Method: 5030B
Dilution: 1.0
Analysis Date: 09/20/2013 1540
Prep Date: 09/20/2013 1540

Analysis Batch: 480-140231
Prep Batch: N/A

Instrument ID: HP5973C
Lab File ID: C32429.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	ND		0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND		0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	ND		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		66 - 137
Toluene-d8 (Surr)	99		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-26

Lab Sample ID: 480-46155-4

Date Sampled: 09/17/2013 1220

Client Matrix: Water

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32430.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 1606			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 1606				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		4.1	25
1,1,2,2-Tetrachloroethane	ND		1.1	25
1,1,2-Trichloroethane	ND		1.2	25
1,1-Dichloroethane	ND		1.9	25
1,1-Dichloroethene	2.3	J	1.5	25
1,2-Dichloroethane	ND		1.1	25
1,2-Dichloropropane	ND		3.6	25
2-Hexanone	ND		6.2	50
Methyl ethyl ketone (MEK)	ND		6.6	50
Methyl isobutyl ketone (MIBK)	ND		11	50
Acetone	ND		15	50
Benzene	ND		2.1	25
Bromodichloromethane	ND		2.0	25
Bromoform	ND		1.3	25
Bromomethane	ND		3.5	25
Carbon disulfide	ND		0.95	25
Carbon tetrachloride	ND		1.4	25
Chlorobenzene	ND		3.8	25
Dibromochloromethane	ND		1.6	25
Chloroethane	ND		1.6	25
Chloroform	ND		1.7	25
Chloromethane	ND		1.8	25
cis-1,2-Dichloroethene	210		4.1	25
cis-1,3-Dichloropropene	ND		1.8	25
Dichlorodifluoromethane	ND		3.4	25
Ethylbenzene	ND		3.7	25
Methylene Chloride	ND		2.2	25
Styrene	ND		3.7	25
Tetrachloroethene	ND		1.8	25
Toluene	ND		2.6	25
trans-1,2-Dichloroethene	ND		4.5	25
trans-1,3-Dichloropropene	ND		1.9	25
Trichloroethene	140		2.3	25
Trichlorofluoromethane	ND		4.4	25
Vinyl chloride	22	J	4.5	25
Xylenes, Total	ND		3.3	25
Vinyl acetate	ND		4.3	25

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
Toluene-d8 (Surr)	101		71 - 126
4-Bromofluorobenzene (Surr)	103		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-BR-06

Lab Sample ID: 480-46155-5

Date Sampled: 09/17/2013 1330

Client Matrix: Water

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32431.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 1632			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 1632				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	9.6		0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND		0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	9.3		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
Toluene-d8 (Surr)	100		71 - 126
4-Bromofluorobenzene (Surr)	103		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-23

Lab Sample ID: 480-46155-6

Date Sampled: 09/17/2013 1345

Client Matrix: Water

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140718	Instrument ID:	HP5975D
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	D5703.D
Dilution:	40			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2013 0457			Final Weight/Volume:	5 mL
Prep Date:	09/24/2013 0457				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		33	200
1,1,2,2-Tetrachloroethane	ND		8.4	200
1,1,2-Trichloroethane	ND		9.2	200
1,1-Dichloroethane	ND		15	200
1,1-Dichloroethene	ND		12	200
1,2-Dichloroethane	ND		8.4	200
1,2-Dichloropropane	ND		29	200
2-Hexanone	ND		50	400
Methyl ethyl ketone (MEK)	ND		53	400
Methyl isobutyl ketone (MIBK)	ND		84	400
Acetone	ND	UJ	120	400
Benzene	ND		16	200
Bromodichloromethane	ND		16	200
Bromoform	ND		10	200
Bromomethane	ND		28	200
Carbon disulfide	ND		7.6	200
Carbon tetrachloride	ND		11	200
Chlorobenzene	ND		30	200
Dibromochloromethane	ND		13	200
Chloroethane	ND		13	200
Chloroform	ND	UJ	14	200
Chloromethane	ND	UJ	14	200
cis-1,2-Dichloroethene	300		32	200
cis-1,3-Dichloropropene	ND		14	200
Dichlorodifluoromethane	ND	UJ	27	200
Ethylbenzene	ND		30	200
Methylene Chloride	ND		18	200
Styrene	ND		29	200
Tetrachloroethene	ND		14	200
Toluene	ND		20	200
trans-1,2-Dichloroethene	ND		36	200
trans-1,3-Dichloropropene	ND		15	200
Trichloroethene	2300		18	200
Trichlorofluoromethane	ND	UJ	35	200
Vinyl chloride	ND		36	200
Xylenes, Total	ND		26	200
Vinyl acetate	ND		34	200

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	75		66 - 137
Toluene-d8 (Surr)	86		71 - 126
4-Bromofluorobenzene (Surr)	86		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-24

Lab Sample ID: 480-46155-7

Date Sampled: 09/17/2013 1430

Client Matrix: Water

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32433.D
Dilution:	400			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 1722			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 1722				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		330	2000
1,1,2,2-Tetrachloroethane	ND		84	2000
1,1,2-Trichloroethane	ND		92	2000
1,1-Dichloroethane	ND		150	2000
1,1-Dichloroethene	ND		120	2000
1,2-Dichloroethane	ND		84	2000
1,2-Dichloropropane	ND		290	2000
2-Hexanone	ND		500	4000
Methyl ethyl ketone (MEK)	ND		530	4000
Methyl isobutyl ketone (MIBK)	ND		840	4000
Acetone	ND		1200	4000
Benzene	ND		160	2000
Bromodichloromethane	ND		160	2000
Bromoform	ND		100	2000
Bromomethane	ND		280	2000
Carbon disulfide	ND		76	2000
Carbon tetrachloride	ND		110	2000
Chlorobenzene	ND		300	2000
Dibromochloromethane	ND		130	2000
Chloroethane	ND		130	2000
Chloroform	ND		140	2000
Chloromethane	ND		140	2000
cis-1,2-Dichloroethene	24000		320	2000
cis-1,3-Dichloropropene	ND		140	2000
Dichlorodifluoromethane	ND		270	2000
Ethylbenzene	ND		300	2000
Methylene Chloride	ND		180	2000
Styrene	ND		290	2000
Tetrachloroethene	ND		140	2000
Toluene	ND		200	2000
trans-1,2-Dichloroethene	ND		360	2000
trans-1,3-Dichloropropene	ND		150	2000
Trichloroethene	ND		180	2000
Trichlorofluoromethane	ND		350	2000
Vinyl chloride	1900	J	360	2000
Xylenes, Total	ND		260	2000
Vinyl acetate	ND		340	2000

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
Toluene-d8 (Surr)	100		71 - 126
4-Bromofluorobenzene (Surr)	101		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-22

Lab Sample ID: 480-46155-8

Client Matrix: Water

Date Sampled: 09/17/2013 1500

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32436.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 1838			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 1838				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	13		0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND		0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	5.7		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
Toluene-d8 (Surr)	99		71 - 126
4-Bromofluorobenzene (Surr)	99		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-25

Lab Sample ID: 480-46155-9

Client Matrix: Water

Date Sampled: 09/17/2013 1530

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32437.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 1904			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 1904				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		4.1	25
1,1,2,2-Tetrachloroethane	ND		1.1	25
1,1,2-Trichloroethane	ND		1.2	25
1,1-Dichloroethane	21	J	1.9	25
1,1-Dichloroethene	4.1	J	1.5	25
1,2-Dichloroethane	ND		1.1	25
1,2-Dichloropropane	ND		3.6	25
2-Hexanone	ND		6.2	50
Methyl ethyl ketone (MEK)	ND		6.6	50
Methyl isobutyl ketone (MIBK)	ND		11	50
Acetone	ND		15	50
Benzene	ND		2.1	25
Bromodichloromethane	ND		2.0	25
Bromoform	ND		1.3	25
Bromomethane	ND		3.5	25
Carbon disulfide	ND		0.95	25
Carbon tetrachloride	ND		1.4	25
Chlorobenzene	ND		3.8	25
Dibromochloromethane	ND		1.6	25
Chloroethane	ND		1.6	25
Chloroform	ND		1.7	25
Chloromethane	ND		1.8	25
cis-1,2-Dichloroethene	220		4.1	25
cis-1,3-Dichloropropene	ND		1.8	25
Dichlorodifluoromethane	ND		3.4	25
Ethylbenzene	ND		3.7	25
Methylene Chloride	ND		2.2	25
Styrene	ND		3.7	25
Tetrachloroethene	ND		1.8	25
Toluene	ND		2.6	25
trans-1,2-Dichloroethene	ND		4.5	25
trans-1,3-Dichloropropene	ND		1.9	25
Trichloroethene	13	J	2.3	25
Trichlorofluoromethane	ND		4.4	25
Vinyl chloride	ND		4.5	25
Xylenes, Total	ND		3.3	25
Vinyl acetate	ND		4.3	25

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 137
Toluene-d8 (Surr)	99		71 - 126
4-Bromofluorobenzene (Surr)	98		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: DUP

Lab Sample ID: 480-46155-10

Date Sampled: 09/17/2013 0000

Client Matrix: Water

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140947	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S30445.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/25/2013 0134			Final Weight/Volume:	5 mL
Prep Date:	09/25/2013 0134				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		3.3	20
1,1,2,2-Tetrachloroethane	ND		0.84	20
1,1,2-Trichloroethane	ND		0.92	20
1,1-Dichloroethane	17	J	1.5	20
1,1-Dichloroethene	2.1	J	1.2	20
1,2-Dichloroethane	ND		0.84	20
1,2-Dichloropropane	ND		2.9	20
2-Hexanone	ND		5.0	40
Methyl ethyl ketone (MEK)	ND		5.3	40
Methyl isobutyl ketone (MIBK)	ND		8.4	40
Acetone	ND		12	40
Benzene	ND		1.6	20
Bromodichloromethane	ND		1.6	20
Bromoform	ND		1.0	20
Bromomethane	ND		2.8	20
Carbon disulfide	ND		0.76	20
Carbon tetrachloride	ND		1.1	20
Chlorobenzene	ND		3.0	20
Dibromochloromethane	ND		1.3	20
Chloroethane	ND		1.3	20
Chloroform	ND		1.4	20
Chloromethane	ND		1.4	20
cis-1,2-Dichloroethene	210		3.2	20
cis-1,3-Dichloropropene	ND		1.4	20
Dichlorodifluoromethane	ND		2.7	20
Ethylbenzene	ND		3.0	20
Methylene Chloride	ND		1.8	20
Styrene	ND		2.9	20
Tetrachloroethene	ND		1.4	20
Toluene	ND		2.0	20
trans-1,2-Dichloroethene	ND		3.6	20
trans-1,3-Dichloropropene	ND		1.5	20
Trichloroethene	11	J	1.8	20
Trichlorofluoromethane	ND		3.5	20
Vinyl chloride	ND		3.6	20
Xylenes, Total	ND		2.6	20
Vinyl acetate	ND		3.4	20

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Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 137
Toluene-d8 (Surr)	111		71 - 126
4-Bromofluorobenzene (Surr)	104		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-28

Lab Sample ID: 480-46155-11

Date Sampled: 09/17/2013 1600

Client Matrix: Water

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32439.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 1954			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 1954				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	ND		0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND		0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	12		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
Toluene-d8 (Surr)	99		71 - 126
4-Bromofluorobenzene (Surr)	101		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-29

Lab Sample ID: 480-46155-12

Date Sampled: 09/17/2013 1615

Client Matrix: Water

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32440.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 2020			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 2020				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	0.94	J	0.38	5.0
1,1-Dichloroethene	0.38	J	0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	160 140	-E-	0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND		0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	0.96	J	0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	0.73	J	0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	13		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
Toluene-d8 (Surr)	102		71 - 126
4-Bromofluorobenzene (Surr)	104		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-1

Lab Sample ID: 480-46155-13

Date Sampled: 09/17/2013 1635

Client Matrix: Water

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32441.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 2046			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 2046				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	5.5		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	4.3	J	0.38	5.0
1,1-Dichloroethene	0.72	J	0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	1.1	J	0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND		0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	ND		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		66 - 137
Toluene-d8 (Surr)	100		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-BR-04

Lab Sample ID: 480-46155-14

Date Sampled: 09/17/2013 1700

Client Matrix: Water

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32442.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 2111			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 2111				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	6.8	J	3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	ND		0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND		0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	ND		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
Toluene-d8 (Surr)	103		71 - 126
4-Bromofluorobenzene (Surr)	102		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: MW-BR-05

Lab Sample ID: 480-46155-15

Client Matrix: Water

Date Sampled: 09/17/2013 1715

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32443.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 2137			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 2137				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	ND		0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND		0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	ND		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		66 - 137
Toluene-d8 (Surr)	99		71 - 126
4-Bromofluorobenzene (Surr)	100		73 - 120

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-46155-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-46155-16

Client Matrix: Water

Date Sampled: 09/17/2013 0000

Date Received: 09/19/2013 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-140231	Instrument ID:	HP5973C
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	C32444.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/20/2013 2202			Final Weight/Volume:	5 mL
Prep Date:	09/20/2013 2202				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	5.0
1,1,2,2-Tetrachloroethane	ND		0.21	5.0
1,1,2-Trichloroethane	ND		0.23	5.0
1,1-Dichloroethane	ND		0.38	5.0
1,1-Dichloroethene	ND		0.29	5.0
1,2-Dichloroethane	ND		0.21	5.0
1,2-Dichloropropane	ND		0.72	5.0
2-Hexanone	ND		1.2	10
Methyl ethyl ketone (MEK)	ND		1.3	10
Methyl isobutyl ketone (MIBK)	ND		2.1	10
Acetone	ND		3.0	10
Benzene	ND		0.41	5.0
Bromodichloromethane	ND		0.39	5.0
Bromoform	ND		0.26	5.0
Bromomethane	ND		0.69	5.0
Carbon disulfide	ND		0.19	5.0
Carbon tetrachloride	ND		0.27	5.0
Chlorobenzene	ND		0.75	5.0
Dibromochloromethane	ND		0.32	5.0
Chloroethane	ND		0.32	5.0
Chloroform	ND		0.34	5.0
Chloromethane	ND		0.35	5.0
cis-1,2-Dichloroethene	ND		0.81	5.0
cis-1,3-Dichloropropene	ND		0.36	5.0
Dichlorodifluoromethane	ND		0.68	5.0
Ethylbenzene	ND		0.74	5.0
Methylene Chloride	ND		0.44	5.0
Styrene	ND		0.73	5.0
Tetrachloroethene	ND		0.36	5.0
Toluene	ND		0.51	5.0
trans-1,2-Dichloroethene	ND		0.90	5.0
trans-1,3-Dichloropropene	ND		0.37	5.0
Trichloroethene	ND		0.46	5.0
Trichlorofluoromethane	ND		0.88	5.0
Vinyl chloride	ND		0.90	5.0
Xylenes, Total	ND		0.66	5.0
Vinyl acetate	ND		0.85	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		66 - 137
Toluene-d8 (Surr)	102		71 - 126
4-Bromofluorobenzene (Surr)	101		73 - 120