LT Environmental, Inc.
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August 27, 2018

Mr. Lee Pivonka
Remediation and Restoration Unit
Federal Facilities Program
Hazardous Materials and Waste Management Division
Colorado Department of Public Health and Environment
4300 Cherry Creek Drive South, B2
Denver, Colorado 80246-1530

RE: **Results for the Biannual Operable Unit 5 Groundwater Monitoring Program – July 2018**
Main TCE Plume, Headquarters Area TCE Plume, Fire Training Zone TCE Plumes, and the Carbon Tetrachloride Source Area
Former Lowry Air Force Base
Denver, Colorado

Dear Mr. Pivonka,

This letter report presents the results of the biannual closure/performance groundwater monitoring event completed in July 2018 for the Operable Unit 5 (OU5) Main Trichloroethene (TCE) Plume, the Headquarters Area (HQ) TCE Plume, the Fire Training Zone (FTZ) TCE Plumes, and the Carbon Tetrachloride (CT) Source Area at the former Lowry Air Force Base in Denver, Colorado (Lowry). This work was completed by LT Environmental, Inc. (LTE), on behalf of Lowry Assumption, LLC (LAC), as set forth in the Colorado Department of Public Health and Environment (CDPHE)-approved Addendum to the Phase 2 Corrective Action Plan for Groundwater Cleanup at Lowry (Operable Unit 5), Former Lowry Air Force Base (LAC, 2015). The scope of work is being implemented to evaluate performance of the remedial program, to support the eventual regulatory closure of the Main TCE Plume, HQ TCE Plume, FTZ TCE Plume, and the CT Source area, and to be consistent with the requirements of Consent Agreement No. 01-08-07-02 (Consent Agreement) between CDPHE, the Lowry Economic Redevelopment Authority (LRA), and LAC.

Descriptions of the sampling methodology, analytical methods, quality assurance (QA)/quality control (QC) procedures, investigation-derived waste (IDW) handling procedures, and equipment decontamination procedures are also included in the *Operable Unit 5 Groundwater Sampling Program - Revised Scope of Work Former Lowry Air Force Base* (LAC, 2012).

Groundwater Sampling

From July 5th through July 9th, 2018, LTE collected samples from designated wells in the Main TCE Plume, HQ TCE Plume, FTZ TCE Plumes, and the CT Source Area (Figure 1). A total of 21 monitoring wells were sampled during the July/August 2016 monitoring event, including:

- One (1) alluvial monitoring wells in the northern off-site portion of the Main TCE Plume;

- Three (3) alluvial monitoring wells within FOSET (Finding of Suitability for Early Transfer) Parcel No. 1 (NWN area-Main TCE Plume);
- One (1) alluvial monitoring well within FOSET Parcel No. 3 (HQ Area);
- Six (6) alluvial monitoring wells and one (1) bedrock monitoring well within FOSET Parcel No. 4a (Building 1432/Outfall Source Area - Main TCE Plume);
- Four (4) alluvial monitoring wells and one (1) bedrock monitoring well within FOSET Parcel No. 4b (OFR Source Area – Main TCE Plume);
- Three (3) bedrock monitoring wells within FOSET Parcels No. 5a and 5b (FTZ TCE Plumes); and
- One (1) bedrock monitoring wells within FOSET Parcel No. 4a (CT Source Area).

The alluvial and bedrock monitoring wells sampled between July 5th through July 9th, 2018 are presented on Figure 1 with area specific detail shown on Figures 2 through Figure 5.

Upon opening each monitoring well, a photo-ionization detector (PID) was used to measure the concentration of volatile organic compounds (VOCs) in the well casing. Prior to purging, the depth to groundwater was measured in each monitoring well.

Groundwater was visually inspected for the presence of phase-separated hydrocarbons and for the presence of residual potassium permanganate ($KMnO_4$) from previous groundwater treatment events. If purple groundwater (indicative of $KMnO_4$)was visible in any given well, then the monitoring well was not sampled. During the July 2018 sampling event, a visual inspection of groundwater in alluvial and bedrock monitoring wells verified no presence of residual $KMnO_4$ in the sampled monitoring wells.

Prior to sampling, the monitoring wells were purged by low-flow methods using dedicated tubing with either a peristaltic pump in shallow monitoring wells, or a dedicated bladder pump in deeper monitoring wells. During purging, field parameters for temperature, pH, electrical conductivity (EC), dissolved oxygen (DO) concentration, and oxidation reduction potential (ORP) were measured using an YSI 556® Multi-Probe Field Meter and annotated on field data sheets. After the parameters stabilized, which is defined as readings within ±10 percent (%) of the previous reading, the monitoring well was sampled. Purge water was placed in 55-gallon steel drums and stored on site pending characterization for appropriate disposal. All field observations and measurements were recorded on Groundwater Sampling Field Data Sheets (Attachment 1) and in the field logbook.

Groundwater samples were collected in laboratory-prepared, unpreserved 40-milliliter vials and submitted for laboratory analysis of VOCs by United States Environmental Protection Agency (EPA) Method 8260B. Samples were placed on ice with a completed chain-of-custody (COC) form and were transported to the ChemSolutions, LLC analytical laboratory (ChemSolutions) in Centennial, Colorado.

Groundwater Analytical Results

For the July 2018 sampling event, TCE analytical results for the Main TCE Plume, HQ TCE Plume, and the FTZ TCE Plume, and CT analytical results for the CT source area with historical data are provided in Table 1 and presented on Figures 2 through 5. Groundwater analytical results are presented relative to the site-specific TCE groundwater standards approved for

Lowry (on-site: 11 micrograms per liter [µg/L]; off-site: 12 µg/L) and set forth in Regulation 42.7(54), 5CCR 1002-42 and for the carbon tetrachloride groundwater standard set forth in Regulation 41, CCR 1002-41. Groundwater laboratory analytical reports, laboratory Quality Assurance and Quality Control (QA/QC) data, and COC documentation are included on the enclosed CD as Attachment 2.

Comparing the results for the July 2018 sampling event to historical analytical data indicates the observed concentrations are within the range of historical results for the FOSET Parcel No. 1, FOSET Parcel No. 4b, and FOSET Parcels No. 5a and 5b.

In FOSET Parcel No. 3, monitoring well MWHQ08 has exhibited results below the on-site specific groundwater standard for TCE (11 µg/L) for three consecutive sampling events (two consecutive annual events and the following biannual event). MWHQ08 now meets the requirements for well abandonment set forth in the CDPHE-approved *Addendum to the Phase 2 Corrective Action Plan for Groundwater Cleanup at Lowry* (LAC, 2015). With CDPHE approval, monitoring well MWHQ08 will be removed from the groundwater sampling schedule and will be abandoned during the next monitoring event. A completion report for FOSET Parcel No. 3 will be prepared and submitted to CDPHE in accordance with Paragraph 50 of the Consent Agreement.

At FOSET Parcel No 4a, in the Building 1432 source area, the bedrock interval has been characterized by the residual presence of $KMnO_4$, an effect of the prior focused remedial injections in the bedrock. Monitoring well MWMF02D has exhibited the presence of $KMnO_4$ (i.e., purge water was purple) since at least July 2009. With no visual indication of $KMnO_4$ present in July 2018, the well was sampled and the reported TCE concentration was 22,000 µg/l. When compared to pre-remediation concentrations of 220,000 µg/l in December 2004 (LAC, 2006) and 310,000 µg/l in January 2008 (LAC, 2008, AR_1588), the July 2018 result for MWMF02D shows a full order of magnitude reduction in TCE concentrations within the bedrock of the source area. The lack of visible $KMnO_4$ in well MWMF02D suggests the final depletion of residual $KMnO_4$ in the source area bedrock.

In the absence of residual $KMnO_4$ in the bedrock at the Building 1432 source area, the desorption of some TCE mass from within the bedrock matrix is likely to occur. The significant increases observed in the July 2018 TCE concentrations for the three alluvial monitoring wells immediately adjacent to the bedrock source area (MWMF02A, MWMF07A, and IRAMW17) suggest that some TCE source mass has mobilized as a result of that process (Figure 2). Based on the fairly static July 2018 monitoring results for wells located farther downgradient toward the northern base boundary (i.e., 11th Avenue), the effects of any mass release do not appear extensive at this time. However, the rise in TCE concentrations in the alluvial monitoring wells is indicative of the need for additional remedial action in the Building 1432 source area to eliminate further migration of TCE mass away from the source area. Additional remedial measures for the Building 1432 source area are being evaluated by LAC concurrent with the submittal of this report. The implementation of any additional remedial measures is anticipated to begin during the fourth quarter of 2018.

Monitoring wells IRAMW18 in FOSET Parcel No. 4a, MWCM03 in FOSET Parcel No. 4b and MWFT07 in FOSET Parcel No. 5b have exhibited two consecutive sampling results compliant with the onsite standard of 11 µg/l.

For Figures 2 through 5, isoconcentration contours illustrate those areas where TCE concentrations in saturated alluvium are greater than the applicable Regulation 42.7(54) site-specific standard for TCE at Lowry. The interpretation is based on the most recent groundwater monitoring data for the plumes as well as historical groundwater characterization data in OU5, remediation data generated during ongoing monitoring in OU5, and the evaluation of intra-well TCE concentration trends. Though it is not practical to present the greater than 20 years of cumulative site data on Figures 2 through 5, the evolution of the present interpretation has its basis in key documents readily available to the reader. The documents are available for review and study by the public at the CDPHE HMWMD Records Center located at 4300 Cherry Creek Drive South, Denver. For an appointment to review documents at the HMWMD Records Center, contact personnel there by telephone at (303) 692-3331 or by e-mail at comments.hmwmd@state.co.us. A project library is also maintained by LAC at 7921 Southpark Plaza, Suite 109, Littleton, CO; an appointment to review documents at the project library can be made by calling (303) 972-6633 or submitting a request via email to lac@resight-ai.com. Lastly, the key documents for the Former Lowry Air Force Base are also available on the internet at the U.S. Air Force Civil Engineer Center Administrative Record at http://afcec.publicadmin-record.us.af.mil/.

Quality Assurance and Quality Control

Field QC groundwater sampling included collection and analysis of trip blanks and duplicate samples. One trip blank accompanied every shipment for analysis of VOCs. Blind duplicate samples were collected for 10% of the samples collected and analyzed for VOCs. Results for the initial investigative sample collected and the duplicate samples were within the acceptable range for the duplicate criteria. The trip blank analytical results indicate no detectable concentrations. The QC results are presented in Table 2.

Data Management

LTE incorporated the electronic data deliverable (EDD) files received from ChemSolutions into the LAC project-specific Microsoft Access database. LTE performed data QC checks on the database to ensure that the full laboratory dataset is entered, and that the resulting database file can be effectively queried.

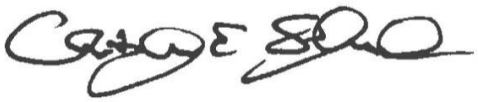
Summary

The biannual groundwater monitoring event for 2018 was completed as of July 9th, 2016. Copies of all Groundwater Sampling Field Data Sheets, laboratory data, and COC documentation are provided as attachments to this report. In accordance with the CDPHE-approved revised groundwater sampling program, the next biannual groundwater sampling event is scheduled for July 2020.

Please contact Paul Weaverling at 303-972-6633, or LTE at (303) 433-9788 if you have any questions about the data provided or need further information regarding the sampling program.

Sincerely,

LT ENVIRONMENTAL, INC.



Chris Purcell, C.P.G.
Senior Geologist

Chris Shephard, P.E.
Chief Engineer

References:

Consent Agreement No, 01-08-07-02, In the Matter of the Lowry Economic Redevelopment Authority and Lowry Assumption, LLC, Hazardous Materials and Waste Management Division, Colorado Department of Public Health and Environment, August 2002

Final Building 1432 Area Extent of TCE in Bedrock Investigation Letter Report, Operable Unit 5, Former Lowry Air Force Base (LAC, August 4, 2006)

Revised - Results for the January 2008 Semiannual Closure/Performance Groundwater Monitoring Program – Main TCE plume, Operable Unit 5, Former Lowry Air Force Base (LAC, July 2, 2008)

Operable Unit 5 Groundwater Sampling Program Revised Scope of Work Former Lowry Air Force Base (LAC, December 6, 2012)

Regulation No. 41, The Basic Standards for Ground Water, 5CCR 1002-41, Colorado Department of Public Health and Environment – Water Quality Control Commission

Regulation No. 42.7(54), Site-Specific Water Quality Classifications and Standards for Ground Water, 5CCR 1002-42, Colorado Department of Public Health and Environment – Water Quality Control Commission

Addendum-Phase 2 Corrective Action Plan for Groundwater Cleanup at Lowry (Operable Unit 5), Former Lowry Air Force Base, Colorado (LAC, July 13, 2015)

Distribution:

Tom Berger – LRA
Paul Carroll - AFCEC
David Erickson – CCD DEH
Nate Owens - Aurora

Pat Smith – EPA Region 8
Lowry Library - LAC
Lowry Project File – LAC

Attachments:

Table 1 – Monitoring Well Network 2018
Table 2 – Quality Assurance/Quality Control Data
Figure 1 – Site Map
Figure 2 – FOSET Parcels 1 & 4(a) Monitoring Wells
Figure 3 – FOSET Parcel 4(b) Monitoring Wells
Figure 4 – FOSET Parcels 5(a) and 5(b) Monitoring Wells
Figure 5 – FOSET Parcel 3 Monitoring Wells
Attachment 1 – Groundwater Sampling Field Data Sheets
Attachment 2 – Groundwater Laboratory Analytical Reports

2001 TCE PLUME BOUNDARY

NORTHERN OFF-SITE

2001 MAIN TCE PLUME

MWHE05

IRAMW02

MWCM05

MWCA03A

IRAMW09R

MWCT01

IRAMW24R

IRAMW18

TWPBR07

MWMF07A

MWMF02A

IRAMW17

MWMF02D

TWOFR-01

MWCM01

MWCM03

IMOFR01

MWHQ08

2001 TCE PLUME BOUNDARY

FOSET PARCEL 1

FOSET PARCEL 3

FOSET PARCEL 4(a)

FOSET PARCEL 4(b)

FOSET PARCEL 5(a)

FOSET PARCEL 5(b)

FOSET PARCEL 5(c)

FOSET PARCEL 5(d)

2001 PLUME BOUNDARY

MWCA07

MWFT07

MWCA08

SYRACUSE ST.
24TH AVE.
23RD AVE.
22ND PL.
22ND AVE.
TRENTON ST.
TAMARAC ST.
ULSTER ST.
SPRUCE ST.
MONTVIEW BLVD.
19TH AVE.
17TH AVE.
16TH AVE.
ULSTER ST.
UNITA ST.
VALENTIA ST.
COLFAX AVE.
14TH AVE.
13TH AVE.
12TH AVE.
11th Ave.
NORTHWEST NEIGHBORHOOD
KELLY ROAD DAM
OPEN SPACE
Yosemite St.
Quebec St.
8th Ave.
Roslyn St.
Ulster Way
Unita Way
6th Ave.
Dayton St.
GREAT LAWN PARK
Spruce St.
Red Cross Way
4th Ave.
1st Pl.
1st Ave.
Academy Blvd.
Rampart Way
Lowry Blvd.
Machebeuf High School
SPORTS COMPLEX
5th Ave.
3rd Ave.
D.F.A.S.
HEADQUARTERS AREA
Bayaud Ave.
Rosemary St.
Fairmount Dr.
Cedar Ave.
WESTERLY CREEK DAM
GOLF COURSE
FIRE TRAINING ZONE
Havana St.

LEGEND

PARCEL IDENTIFICATION
- NORTHERN OFF-SITE
- FOSET 1
- FOSET 3
- FOSET 4(a)
- FOSET 4(b)
- FOSET 5(a,b)

- ALLUVIAL MONITORING WELL
- BEDROCK MONITORING WELL
- CARBON TETRACHLORIDE BEDROCK MONITORING WELL
- REPRESENTS 2001 MAIN TCE PLUME BOUNDARY ≥5 ug/l (MICROGRAMS/LITER)

JULY 2018 TCE ISOCONCENTRATION CONTOUR
TRICHLOROETHENE IN MICROGRAMS PER LITER (ug/l)
- >11 ug/l (ON-SITE)
- >12 ug/l (OFF-SITE)
- >100 ug/l
- >1,000 ug/l

0 250 500 1000 FEET

SOURCE: URS

FIGURE 1
SITE MAP
JULY 2018 GROUNDWATER MONITORING
FORMER LOWRY AFB
LOWRY ASSUMPTION, LLC.

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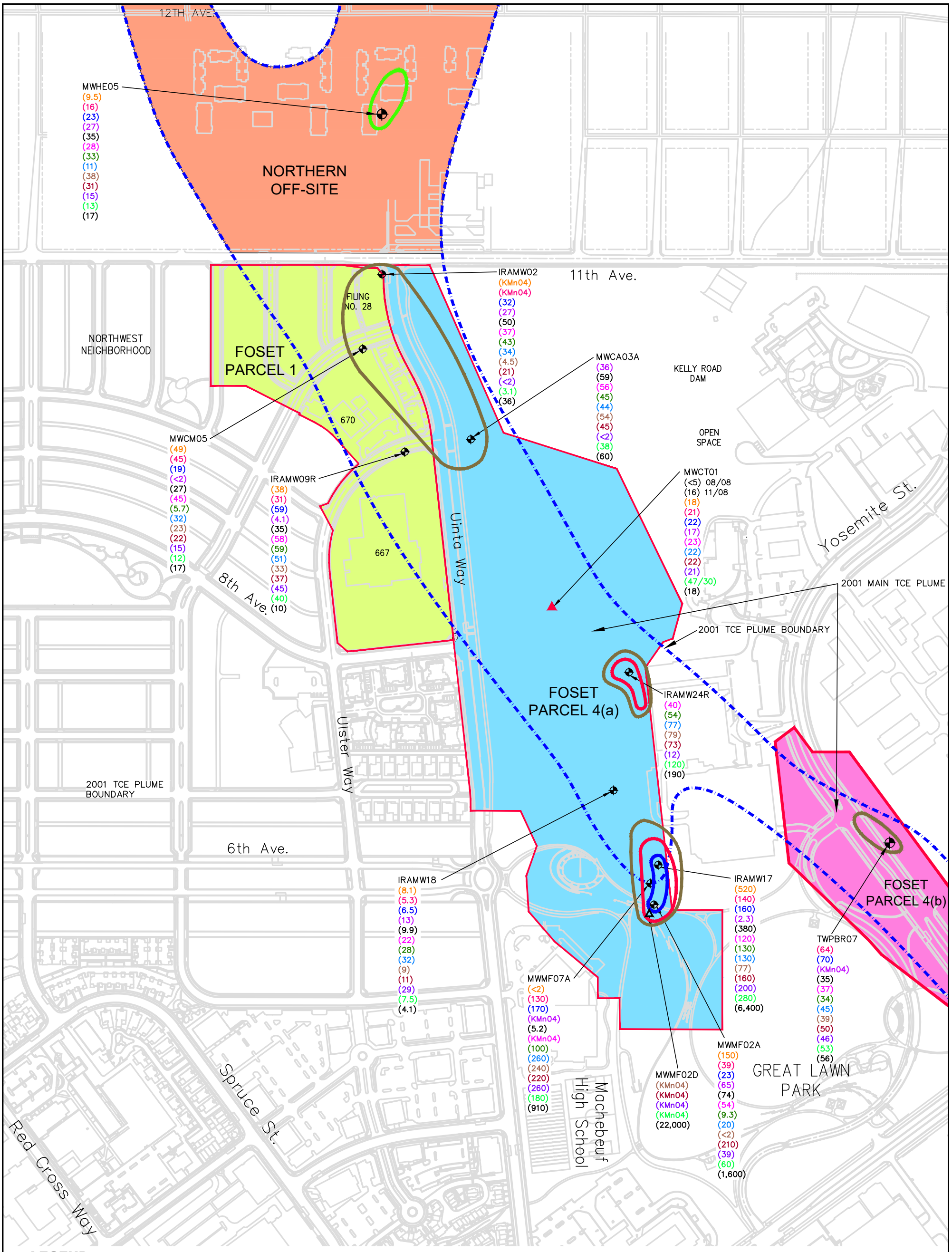

LEGEND

- ALLUVIAL MONITORING WELL & TRICHLOROETHENE (TCE) RESLUTS
- BEDROCK MONITORING WELL
- CARBON TETRACHLORIDE (CT) BEDROCK MONITORING WELL & CT RESULTS
- NORTHERN OFF-SITE
- FOSET 1
- FOSET 4(a)
- 2001 TCE PLUME BOUNDARY

REPRESENTS ≥5 ug/l (MICROGRAMS PER LITER)

JULY 2018 TCE ISOCONCENTRATION CONTOURS
IN MICROGRAMS PER LITER (ug/l)

- >11 ug/l (ON-SITE)
- >12 ug/l (OFF-SITE)
- >100 ug/l
- >1,000 ug/l

TCE OR CT IN GROUNDWATER

(###) JULY 2009	JULY 2009
(###) JANUARY 2010	JANUARY 2010
(###) JULY 2010	JULY 2010
(###) JANUARY 2011	JANUARY 2011
(###) JULY 2011	JULY 2011
(###) JANUARY 2012	JANUARY 2012
(###) JULY 2012	JULY 2012
(###) JANUARY 2013	JANUARY 2013
(###) JULY 2013	JULY 2013
(###) JULY/AUGUST 2014	JULY/AUGUST 2014
(###) JULY/AUGUST 2015	JULY/AUGUST 2015
(###) JULY/AUGUST 2016	JULY/AUGUST 2016
(###) JULY 2018	JULY 2015

CONCENTRATIONS IN MICROGRAMS PER LITER

(KMn04) POTASSIUM PERMANGANATE OBSERVED IN WELL NOT SAMPLED

SOURCE: URS

0 100 200 400
FEET

FIGURE 2
FOSET PARCELS 1 & 4(a) MONITORING WELLS
JULY 2018 TCE & CT CONCENTRATIONS
MAIN TCE PLUME
FORMER LOWRY AFB

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KELLY ROAD DAM

OPEN SPACE

Yosemite St.

Dayton St.

CITY AND COUNTY OF DENVER
CITY OF AURORA
ARAPAHOE COUNTY

2001 TCE PLUME BOUNDARY

6th Ave.

TWPBR07
(64)
(70)
(KMn04)
(35)
(37)
(34)
(45)
(39)
(50)
(46)
(53)
(56)

FOSET
PARCEL 4(b)

2001 MAIN TCE PLUME

GREAT LAWN PARK

Lowry Blvd.

Yosemite St.

TWOFR-01
(280)
(230)
(KMn04)
(200)
(180)
(81)
(140)
(81)
(77)
(76)
(8.4)
(31)
(29)

MWCM01
(16)
(37)
(120)
(43)
(23)
(7.3)
(10)
(14)
(14)
(14)
(20)
(<2)
(19)

MWCM03
(140)
(170)
(KMn04)
(83)
(52)
(41)
(75)
(48)
(7.8)
(2.3)
(21)
(<2)
(<2)

IMOFR01
(<12)
(1,000)
(1,900)
(2,100)
(1,700)

SPORTS COMPLEX

CITY AND COUNTY OF DENVER
CITY OF AURORA
ARAPAHOE COUNTY

LEGEND

- ALLUVIAL MONITORING WELL & TRICHLOROETHENE (TCE) RESULTS
- BEDROCK MONITORING WELL & TCE RESULTS
- FOSET 4(a)
- FOSET 4(b)
- 2001 TCE PLUME BOUNDARY REPRESENTS ≥5 ug/l (MICROGRAMS/LITER)

JULY 2018 TCE ISOCONCENTRATION CONTOUR

- >11 ug/l

TCE IN GROUNDWATER

- (###) JULY 2009
- (###) JANUARY 2010
- (###) JULY 2010
- (###) JANUARY 2011
- (###) JULY 2011
- (###) JANUARY 2012
- (###) JULY 2012
- (###) JANUARY 2013
- (###) JULY 2013
- (###) JULY/AUGUST 2014
- (###) JULY/AUGUST 2015
- (###) JULY/AUGUST 2016
- (###) JULY 2018

CONCENTRATIONS IN MICROGRAMS PER LITER

0 100 200 400
FEET

SOURCE: URS

FIGURE 3
FOSET PARCEL 4(b) MONITORING WELLS JULY 2018 TCE CONCENTRATIONS MAIN TCE PLUME FORMER LOWRY AFB

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5th Ave.

Havana St.

3rd Ave.

CITY AND COUNTY OF DENVER
CITY OF AURORA
ARAPAHOE COUNTY

FOSET
PARCEL 4(b)

2001 PLUME BOUNDARY

MWCA07
(37)
(31)
(28)
(12)
(7)
(11)
(12)
(14)
(7.5)

FIRE TRAINING ZONE TCE PLUME

FOSET
PARCEL 5(a)

2001 TCE PLUME
BOUNDARY

MWFT07
(11)
(12)
(13)
(15)
(11)
(14)
(14)
(8.9)
(10)

MWCA08
(17)
(16)
(20)
(17)
(14)
(29)
(18)
(18)
(21)

FOSET
PARCEL 5(c)

GOLF COURSE

FOSET
PARCEL 5(b)

FOSET
PARCEL 5(d)

Havana St.

CITY AND COUNTY OF DENVER
CITY OF AURORA
ARAPAHOE COUNTY

LEGEND

BEDROCK MONITORING WELL & TRICHOLOROETHENE (TCE) RESULTS

FOSET 4(b)

FOSET 5(a,b,c,d)

2001 TCE PLUME BOUNDARY
REPRESENTS ≥5 ug/l (MICROGRAMS/LITER)

TCE IN GROUNDWATER
(###) JULY 2009
(###) JANUARY 2010
(###) JULY 2010
(###) JANUARY 2011
(###) JULY 2011
(###) JANUARY 2012
(###) JULY 2012
(###) JANUARY 2013
(###) JULY 2013
(###) JULY/AUGUST 2014
(###) JULY/AUGUST 2015
(###) JULY/AUGUST 2016
(###) JULY 2018
CONCENTRATIONS IN MICROGRAMS PER LITER

0 100 200 400
FEET

SOURCE: URS

FIGURE 4
FOSET PARCELS 5(a) AND 5(b) MONITORING WELLS JULY 2018 TCE CONCENTRATIONS FIRE TRAINING ZONE TCE PLUME FORMER LOWRY AFB

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LEGEND

ALLUVIAL MONITORING WELL & TRICHLOROETHENE (TCE) RESULTS

FOSET 3

2001 TCE PLUME BOUNDARY
REPRESENTS ≥5 ug/l (MICROGRAMS/LITER)

TCE IN GROUNDWATER
(###) JULY 2009
(###) JANUARY 2010
(###) JULY 2010
(###) JANUARY 2011
(###) JULY 2011
(###) JANUARY 2012
(###) JULY 2012
(###) JANUARY 2013
(###) JULY 2013
(###) JULY/AUGUST 2014
(###) JULY/AUGUST 2015
(###) JULY/AUGUST 2016
(###) JULY 2018
CONCENTRATIONS IN MICROGRAMS PER LITER

SOURCE: URS

0 100 200 400
FEET

FIGURE 5
FOSET PARCEL 3 MONITORING WELLS JULY 2018 TCE CONCENTRATIONS HEADQUARTERS AREA TCE PLUME FORMER LOWRY AFB

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TABLE 1
MONITORING WELL NETWORK 2018
FOSET PARCELS No. 1, 3, 4A, 4B, 5A, 5B, CT, and NORTHERN OFFSITE MAIN TCE PLUME
GROUNDWATER MONITORING PROGRAM OU 5
FORMER LOWRY AIR FORCE BASE
DENVER, COLORADO

Well ID	Remediation Area	Screened Zone	Screen Interval (ft bgs)*	Jan 2009 TCE Concentration (µg/L)	July 2009 TCE Concentration (µg/L)	Jan 2010 TCE Concentration (µg/L)	July 2010 TCE Concentration (µg/L)	Jan 2011 TCE Concentration (µg/L)	July 2011 TCE Concentration (µg/L)	Jan 2012 TCE Concentration (µg/L)	July 2012 TCE Concentration (µg/L)	Jan 2013 TCE Concentration (µg/L)	July 2013 TCE Concentration (µg/L)	July/Aug 2014 TCE Concentration (µg/L)	July/August 2015 TCE Concentration (µg/L)	July/August 2016 TCE Concentration (µg/L)	July 2018 TCE Concentration (µg/L)	Depth to Water (ft btoc)
Northern Off-Site: Main TCE Plume																		
MWHE05	OFB-1	Alluvium	21.3 - 26.3	**19**	9.5	**16**	**23**	**27**	**35**	**28**	**33**	11	**38**	**31**	**15**	**13**	**17**	22.43
FOSET Parcel No. 1: NWN Area - Main TCE Plume																		
MWCM05	ONB-6	Alluvium	13.5 - 23.5	**52**	**49**	**45**	**19**	<2.0	**27**	**45**	5.7	**32**	**23**	**22**	**15**	**12**	**17**	19.40
IRAMW09R	ONB-6	Alluvium	15.5 - 25.5	**26**	**38**	**31**	**59**	4.1	**35**	**58**	**59**	**51**	**33**	**37**	**45**	**40**	10	18.10
IRAMW02	ONB-6	Alluvium	15.5 - 25.5	**36**	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	**32**	**27**	**50**	**37**	**43**	**34**	4.5	**21**	<2	3.1	**36**	20.25
FOSET Parcel No. 3: Headquarters Area TCE Plume																		
MWHQ08	HQ	Alluvium	89.5 - 99.5	**13**	NS	**14**	**15**	8.2	**12**	**16**	**18**	**20**	**17**	**13**	9.1	6.9	10	67.73
FOSET Parcel No. 4a: Building 1432/Outfall Source Area - Main TCE Plume																		
MWMF02A	ONB-5	Alluvium	16 - 26	**130**	**150**	**39**	**23**	**65**	**74**	**54**	9.3	**20**	<2	**210**	**39**	**60**	**1,600**	8.83
MWMF02D	ONB-5	Bedrock	38-43	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	$KMnO_4$ in well, NS	**22,000**	12.84
MWMF07A	ONB-5	Alluvium	19 - 35	-	<2.0	**130**	**170**	$KMnO_4$ in well, NS	**5.2**	$KMnO_4$ in well, NS	**100**	**260**	**240**	**220**	**260**	**180**	**910**	15.27
IRAMW17	ONB-5	Alluvium	14.5 - 24.5	-	**520**	**140**	**160**	2.3	**380**	**120**	**130**	**130**	**77**	**160**	**200**	**280**	**6,400**	10.80
IRAMW18	ONB-5	Alluvium	9.5 - 14.5	12	8.1	**5.3**	**6.5**	**13**	**9.9**	**22**	**28**	**32**	9	11	**29**	7.5	4.1	7.47
IRAMW24R	ONB-6	Alluvium	4-14	-	-	-	-	-	-	**40**	**54**	**77**	**79**	**73**	**12**	**120**	**190**	4.04
MWCA03A	ONB-6	Alluvium	13.5-23.5	-	-	-	-	**36**	**59**	**56**	**45**	**44**	**54**	**45**	<2	**38**	**60**	14.52
FOSET Parcel No. 4b: OFR Source Area - OFR TCE Plume																		
MWCM01	ONB-2	Alluvium	7 - 17	**21**	**16**	**37**	**16**	12	**23**	7.3	10	**14**	**14**	**14**	**20**	<2	**19**	7.30
MWCM03	ONB-2	Alluvium	8 - 18	5.1	**140**	**170**	4.4	5.9	**52**	**41**	**75**	**48**	7.8	2.3	**21**	<2	<2	8.82
TWOFR-01	ONB-2	Alluvium	6 - 16	3.4 J	**280**	**230**	**16**	5.0	**180**	**81**	**140**	**82**	**77**	**76**	8.4	**31**	**29**	8.47
TWPBR07	ONB-4	Alluvium	10 - 20	**22**	-	**64**	**23**	$KMnO_4$ in well, NS	**35**	**37**	**34**	**45**	**39**	**50**	**46**	**53**	**56**	15.02
IMOFR01	ONB-2	Bedrock	32-42	-	-	-	-	<2	-	-	-	**1000**	-	-	**1900**	**2,100**	**1,700**	8.12
FOSET Parcel No. 5a: FTZ Source Area - FTZ TCE Plume																		
MWCA07	FTZ	Bedrock	13.5 - 23.5	**31**	**28**	-	-	-	-	-	**12**	-	7	11	**12**	**14**	7.5	12.05
FOSET Parcel No. 5b: FTZ Source Area - FTZ TCE Plume																		
MWCA08	FTZ	Bedrock	20 - 35	**16**	**20**	-	-	-	-	-	**17**	-	**14**	**29**	**18**	**18**	**21**	10.33
MWFT07	FTZ	Bedrock	25 - 35	12	**13**	-	-	-	-	-	**15**	-	11	**14**	**14**	8.9	10	13.65
				Nov-08 CT Concentration (µg/l)	**July 2009 CT Concentration (µg/l)**	**Jan 2010 CT Concentration (µg/l)**	**July 2010 CT Concentration (µg/l)**	**Jan 2011 CT Concentration (µg/l)**	-	**Jan 2012 CT Concentration (µg/l)**	-	**Jan 2013 CT Concentration (µg/l)**	-	**July 2014 CT Concentration (µg/L)**	**July 2015 CT Concentration (µg/L)**	**August 2016 CT Concentration (µg/L)**	**August 2018 CT Concentration (µg/L)**	**Depth to Water (ft btoc)**
FOSET Parcel No. 4a: Carbon Tetrachloride Source Area																		
MWCT01	CT	Bedrock	30.5 - 40.5	**16**	**18**	**21**	**22**	**17**	-	**23**	-	**22**	-	**22**	**21**	**47 / 30*****	**18**	5.75

Notes:
Results in **bold type** indicate a concentration in excess of the applicable site specific Groundwater Standard (on-site: 11 µg/L, off-site 12 µg/L) for TCE (Regulation 42) or CT (Regulation 41, CCR 1002-41, 5 µg/L)
Samples analyzed for VOCs - Volatile organic compounds by EPA Method 8260
J - Data qualifier - compound detected above the Method Detection Limit but below the Method Reporting Limit; the reported value is estimated
**IRAMW24 was destroyed during a Westerly Creek flood event. This well was replaced with a water table well in a similar location and designated as IRAMW24R prior to the January 2011 CMP sampling event.
***MWCT01 was inadvertently abandoned in 2015; the well was restored in August 2016 to a total depth of 32.82 feet below ground and then redeveloped; the well was subsequently sampled twice in August 2016 to demonstrate consistency with the historical data.
CCR - Code of Colorado Regulations
CT - Carbon Tetrachloride
ft bgs - feet below ground surface
$KMnO_4$ - Potassium permanganate
NA - Not available
NM - Not Measured
NS - Not Sampled
OFB - Off-base
ONB - On-base
TCE - Trichloroethene
µg/L - micrograms per liter
"-" - Not sampled
* depth based on original installation, surface grades may have changed due to redevelopment construction activities

TABLE 2
QUALITY ASSURANCE/QUALITY CONTROL DATA
FOSET PARCELS No. 1, 3, 4A, 4B, 5A, 5B, CT, and NORTHERN OFFSITE MAIN TCE PLUME
GROUNDWATER MONITORING PROGRAM OU 5
FORMER LOWRY AIR FORCE BASE
DENVER, COLORADO

Sample ID	Date Sampled	July 2018 TCE Concentration (µg/L)
Trip Blank		<2
IRAMW09R	7/5/2018	10
B-2 (IRAMW09R Duplicate)	7/5/2018	9.9
MWHQ08	7/6/2018	10
B-3 (MWHQ08 Duplicate)	7/6/2018	11

NOTES:

TCE - trichloroethene

ug/L - micrograms per liter

< - indicates compound not detected above the method reporting limit

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID	Date	Purge Equipment	Water Quality Instrumentation
MWHE05	04/05/2018	☐ Dedicated Bladder Pump	☐ QED FC5000 √ ☐ Solinst Water Level Meter
Samplers: BF	Time: 1125 24 Hr	☐ Disposable Bailer	√ ☐ YSI 556 MPS ☐ HACH 2100P Turbidity
Casing Diameter: 2" inches	Study Area	☑ Peristaltic Pump ☐	Instrument Calibration / Time / Initials
Total Well Depth: 25.70 ft.btoc	Screened Interval: ft.btoc	Sample Equipment: ☐ Dedicated Bladder Pump ☐ Disposable Bailer ☑ Peristaltic Pump ☐	Parameter / Initial (temp) / Final (temp) / Cal Std/ Lot #/ Exp. Date: Temp °C; pH(1st pt) 7.00; pH(2nd pt) 10.00; ORP 220mV; Conduct. 1413µS/cm; DO %
Initial Water Level: 22.43 ft.btoc	Pump Intake: 24.50 ft.btoc	Filtration Equipment: ☐ 0.45um ☐ Other: √ ☐ NA	Calibration Notes / Comments
Saturated Thickness: ft	Sample Interval: ft.btoc		Sampling Event: Lowry ☐ Longterm ☐ Performance
Casing / WB Volume: gal; Total Purge Volume x3	Final Water Level: NA ft.btoc	Water Level during purge (low flow): NA; Total Purge Volume	Condition of Well, Pump, Well Vault: Fair

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1105	Initial	0.1	16.68	7.70	5.92		49.2	3,174	NA	Brown cloudy, N/S, N/O
1110		0.3	15.17	7.27	4.87		51.9	3,162	N/A	cloudy, N/S, N/O
1115		0.6	15.11	7.10	4.52		51.5	3,145	N/A	cloudy, N/S, N/O
1120		0.9	15.18	7.05	4.33		52.3	3,133	N/A	SAA
1125		1.2	15.10	7.01	4.32		52.8	3,132	N/A	SAA

Analytical Suite	Sample Description	Notes
☑ VOCs	☐ clear	* Describe color / odor
☐ Metals _____	☑ cloudy	Cloudy, N/S, N/O
☐ QA/QC _____	☐ color *	
☐ Other _____	☐ odor *	100mL/min
Sample Time		Sampler Signature: [signature]

H&S	Well Screening	PID ~~0.0~~ ppm	0.0	Checked By:
Protective Level Dermal: √D C B				Date:
Respiratory: √D C B				

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID: IRAM W09R	Date: 07/05/2018	Purge Equipment: ☐ Dedicated Bladder Pump ☐ Disposable Bailer ☐ Peristaltic Pump ☐	Water Quality Instrumentation: ☐ QED FC5000 √ ■ Solinst Water Level Meter √ ■ YSI 556 MPS ☐ HACH 2100P Turbidity
Samplers: BF	Time: 1235 24 Hr		Instrument Calibration / Time / Initials
Casing Diameter: 2" inches	Study Area:	Sample Equipment: ☐ Dedicated Bladder Pump ☐ Disposable Bailer ☐ Peristaltic Pump ☐	Parameter / Initial (temp) / Final (temp) / Cal Std/ Lot #/ Exp. Date Temp °C pH(1st pt) 7.00 pH(2nd pt) 10.00 ORP 220mV Conduct. 1413µS/cm DO %
Total Well Depth: 26.21 ft.btoc	Screened Interval: ft.btoc		
Initial Water Level: 18.10 ft.btoc	Pump Intake: ft.btoc	Filtration Equipment: ☐ 0.45um ☐ Other: √ ■ NA	Calibration Notes / Comments: SN: 06K1697AN
Saturated Thickness: ft	Sample Interval: ft.btoc		Sampling Event: Lowry ☐ Longterm ☐ Performance
Casing / WB Volume: gal Total Purge Volume x3	Final Water Level: NA ft.btoc	Water Level during purge (low flow): NA Total Purge Volume	Condition of Well, Pump, Well Vault

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1215	Initial	0.1	17.84	7.41	5.13		110.9	4,036	NA	cloudy, N/S, N/O
1220		0.3	16.63	7.21	1.22		92.1	3,994	NA	SAA
1225		0.6	16.70	7.18	0.87		77.5	3,988	NA	SAA
1230		0.9	16.60	7.15	0.71		70.3	3,991	NA	SAA
1235		1.2	16.26	7.14	0.55		60.2	3,999	NA	SAA

Analytical Suite: ■ VOCs ☐ Metals ☐ QA/QC ☐ Other	Sample Description: ☐ clear ☐ cloudy ☐ color * ☐ odor *	Notes: * Describe color / odor: Dup Sample labeled B-2 @1000	Sampler Signature
Sample Time			
H&S: Protective Level Dermal: √D C B; Respiratory: √D C B	Well Screening: PID ppm: 1.35		Checked By: Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID	Date	Purge Equipment	Water Quality Instrumentation
MWCM05	07/06/2018	☐ Dedicated Bladder Pump	☐ QED FC5000 √ ☐ Solinst Water Level Meter
Samplers	Time 24 Hr	☑ Disposable Bailer	√ ☐ YSI 556 MPS ☐ HACH 2100P Turbidity
BF	1200	☐ Peristaltic Pump	
Casing Diameter	Study Area	☐	
2" inches		Sample Equipment	
Total Well Depth	Screened Interval	☐ Dedicated Bladder Pump	
22.68 ft.btoc	ft.btoc	☐ Disposable Bailer	
Initial Water Level	Pump Intake	☑ Peristaltic Pump	
19.40 ft.btoc	21.0 ft.btoc	☐	
Saturated Thickness	Sample Interval	Filtration Equipment	
ft	21.0 ft.btoc	☐ 0.45um	
Casing / WB Volume gal	Final Water Level NA ft.btoc	☐ Other:	
Total Purge Volume x3		√ ☐ NA	

Instrument Calibration	Time	Initials

Parameter	Initial (temp)	Final (temp)	Cal Std/ Lot #/ Exp. Date
Temp °C			
pH(1st pt)			7.00
pH(2nd pt)			10.00
ORP			220mV
Conduct.			1413µS/cm
DO %			

Calibration Notes / Comments

Sampling Event **Lowry**

☐ **Longterm** ☐ **Performance**

Condition of Well, Pump, Well Vault

Water Level during purge (low flow): NA

Total Purge Volume

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1140	Initial	0.1	18.67	7.53	4.13		40.2	4,225	NA	Brown, silty, N/S, N/O
1145		0.3	16.33	7.15	3.78		66.4	4093	N/A	Cloudy, N/S, N/O
1150		0.6	16.04	7.11	4.31		48.6	4,021	N/A	SAA
1155		0.9	15.84	7.07	4.81		48.3	3,967	N/A	SAA
1200		1.2	15.86	7.05	4.71		48.7	3,964	N/A	SAA

Analytical Suite

☑ VOCs
☐ Metals _____
☐ QA/QC _____
☐ Other _____

Sample Description

☐ clear
☑ cloudy
☐ color *
☐ odor *

Notes

* Describe color / odor

Cloudy, N/S, N/O

100 mL/min

Sampler Signature

Sample Time

H&S Protective Level Dermal: √D C B
Respiratory: √D C B

Well Screening PID 0.50 ppm

Checked By:

Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID: IRAM W02	Date: 07/06/2018	Purge Equipment: ☐ Dedicated Bladder Pump; ☐ Disposable Bailer; ☑ Peristaltic Pump; ☐ _____	Water Quality Instrumentation: ☐ QED FC5000 √; ■ Solinst Water Level Meter; √ ■ YSI 556 MPS; ☐ HACH 2100P Turbidity
Samplers: BF	Time: 0700 24 Hr		
Casing Diameter: 2" inches	Study Area:	Sample Equipment: ☐ Dedicated Bladder Pump; ☐ Disposable Bailer; ☑ Peristaltic Pump; ☐ _____	
Total Well Depth: 28.34 ft.btoc	Screened Interval: ft.btoc		
Initial Water Level: 20.25 ft.btoc	Pump Intake: ft.btoc	Filtration Equipment: ☐ 0.45um; ☐ Other: _____; √ ■ NA	Calibration Notes / Comments
Saturated Thickness: ft	Sample Interval: ft.btoc		Sampling Event: **Lowry**
Casing / WB Volume: gal	Final Water Level: NA ft.btoc	Water Level during purge (low flow): NA	☐ **Longterm** ☐ **Performance**
Total Purge Volume x3		Total Purge Volume	Condition of Well, Pump, Well Vault

Instrument Calibration — Time — Initials

Parameter	Initial (temp)	Final (temp)	Cal Std/ Lot #/ Exp. Date
Temp °C			
pH(1st pt)			7.00
pH(2nd pt)			10.00
ORP			220mV
Conduct.			1413µS/cm
DO %			

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
0640	Initial	0.1	15.64	7.70	4.88	65.4	2979	NA	Cloudy, N/S, N/O
0645		0.3	16.03	7.61	3.27	64.5	2,977	NA	SAA
0650		0.6	16.11	7.53	2.75	52.8	3,032	NA	SAA
0655		0.9	16.06	7.48	2.61	46.1	3,062	NA	Clear, N/S, N/O
0700		1.2	16.14	7.43	2.40	42.4	3,104	NA	SAA

Analytical Suite: ■ VOCs; ☐ Metals _____; ☐ QA/QC _____; ☐ Other _____

Sample Description: ☐ clear; ☐ cloudy; ☐ color *; ☐ odor *

Sample Time

Notes: * Describe color / odor

100 mL/Min

Sampler Signature

H&S — Protective Level Dermal: √D C B; Respiratory: √D C B

Well Screening — PID ppm: 0.0

Checked By:

Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID: MWHQ08	Date: 07/06/2018	Purge Equipment: ☑ Dedicated Bladder Pump; ☐ Disposable Bailer; ☐ Peristaltic Pump; ☐	Water Quality Instrumentation: ☐ QED FC5000 √; ☐ Solinst Water Level Meter; √ ☐ YSI 556 MPS; ☐ HACH 2100P Turbidity
Samplers: BF	Time: 1455 24 Hr		
Casing Diameter: 2" inches	Study Area:	Sample Equipment: ☑ Dedicated Bladder Pump; ☐ Disposable Bailer; ☐ Peristaltic Pump; ☐	
Total Well Depth: 92.18 ft.btoc	Screened Interval: ft.btoc		
Initial Water Level: 67.63 ft.btoc	Pump Intake: ft.btoc	Filtration Equipment: ☐ 0.45um; ☐ Other:	Calibration Notes / Comments: SN:
Saturated Thickness: ft	Sample Interval: ft.btoc	√ ☐ NA	Sampling Event: Lowry; ☐ Longterm ☐ Performance
Casing / WB Volume: gal; Total Purge Volume x3	Final Water Level: NA ft.btoc	Water Level during purge (low flow): NA; Total Purge Volume	Condition of Well, Pump, Well Vault: good

Instrument Calibration	Time	Initials

Parameter	Initial (temp)	Final (temp)	Cal Std/ Lot #/ Exp. Date
Temp °C			
pH(1st pt)			7.00
pH(2nd pt)			10.00
ORP			220mV
Conduct.			1413µS/cm
DO %			

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1335	Initial	0.1	15.46	8.38	5.65		23.7	1,713	NA	Brown, cloudy, N/S, N/O
1440		0.3	15.33	8.00	3.35		31.0	1,747	NA	SAA
1445		0.6	15.29	7.90	3.27		31.6	1,746	NA	SAA
1450		0.9	15.05	7.79	3.22		31.0	1,743	NA	SAA
1455		1.2	15.31	7.66	3.07		29.3	1,737	NA	SAA

Analytical Suite		Sample Description	Notes
☑ VOCs		☐ clear	* Describe color / odor
☐ Metals	____	☑ cloudy	Dup collected labeled as B-3@1510
☐ QA/QC	____	☐ color *	cloudy, N/S, N/O
☐ Other	____	☐ odor *	Sampler Signature
Sample Time			

H&S		Well Screening			
Protective Level Dermal:	√D C B		PID	0.0	Checked By:
Respiratory:	√D C B		ppm		Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID: MWMF02A	Date: 07/05/2018	Purge Equipment: ☐ Dedicated Bladder Pump; ☐ Disposable Bailer; ☑ Peristaltic Pump; ☐	Water Quality Instrumentation: ☐ QED FC5000 √; ■ Solinst Water Level Meter; √ ■ YSI 556 MPS; ☐ HACH 2100P Turbidity
Samplers: BF	Time: 1520 24 Hr		
Casing Diameter: 2" inches	Study Area:	Sample Equipment: ☐ Dedicated Bladder Pump; ☐ Disposable Bailer; ☑ Peristaltic Pump; ☐	
Total Well Depth: 28.42 ft.btoc	Screened Interval: ft.btoc		
Initial Water Level: 8.83 ft.btoc	Pump Intake: 26.50 ft.btoc	Filtration Equipment: ☐ 0.45um; ☐ Other:; √ ■ NA	Calibration Notes / Comments: S/N:
Saturated Thickness: ft	Sample Interval: 26.50 ft.btoc		Sampling Event: Lowry; ☐ Longterm ☐ Performance
Casing / WB Volume: gal; Total Purge Volume x3	Final Water Level: NA ft.btoc	Water Level during purge (low flow): NA; Total Purge Volume	Condition of Well, Pump, Well Vault: Fair

Instrument Calibration	Time	Initials

Parameter	Initial (temp)	Final (temp)	Cal Std/ Lot #/ Exp. Date
Temp °C			
pH(1st pt)			7.00
pH(2nd pt)			10.00
ORP			220mV
Conduct.			1413µS/cm
DO %			

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1500	Initial	0.1	16.07	7.58	4.02		150.6	3,046	NA	Cloudy, N/S, N/O
1505		0.3	15.25	7.30	0.82		150.8	3,022	NA	Clear, N/S, N/O
1510		0.6	14.77	7.23	0.38		142.3	2,947	NA	SAA
1515		0.9	14.74	7.17	0.31		138.3	2,922	NA	SAA
1520		1.2	14.81	7.13	0.29		132.8	2,896	NA	SAA

Analytical Suite: ■ VOCs; ☐ Metals ____; ☐ QA/QC ____; ☐ Other ____	Sample Description: ☐ clear; ☐ cloudy; ☐ color *; ☐ odor *	Notes: * Describe color / odor: Clear, N/S, N/O	Sampler Signature
Sample Time:		150 ml/min	
H&S: Protective Level Dermal: √D C B; Respiratory: √D C B	Well Screening: PID ppm: 0.0		Checked By: Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID	Date
MWMF02D	07/09/2018
Samplers	**Time** 24 Hr
BT	1230
Casing Diameter	**Study Area**
2" inches	
Total Well Depth	**Screened Interval**
41.28 ft.btoc	ft.btoc
Initial Water Level	**Pump Intake**
12.84 ft.btoc	Bailer ft.btoc
Saturated Thickness	**Sample Interval**
ft	ft.btoc
Casing / WB Volume	**Final Water Level**
gal	NA Bailed Dry
Total Purge Volume x3	ft.btoc

Purge Equipment
- ☐ Dedicated Bladder Pump
- ☑ Disposable Bailer
- ☐ Peristaltic Pump
- ☐

Sample Equipment
- ☐ Dedicated Bladder Pump
- ☑ Disposable Bailer
- ☐ Peristaltic Pump
- ☐

Filtration Equipment
- ☐ 0.45um
- ☐ Other:
- √ ☑ NA

Water Level during purge (low flow): NA

Total Purge Volume

Water Quality Instrumentation
- ☐ QED FC5000 √
- √ ☑ YSI 556 MPS
- ☑ Solinst Water Level Meter
- ☐ HACH 2100P Turbidity

Instrument Calibration	Time	Initials

Parameter	Initial (temp)	Final (temp)	Cal Std/ Lot #/ Exp. Date
Temp °C			
pH(1st pt)			7.00
pH(2nd pt)			10.00
ORP			220mV
Conduct.			1413µS/cm
DO %			

Calibration Notes / Comments

Sampling Event Lowry

- ☐ Longterm
- ☐ Performance

Condition of Well, Pump, Well Vault

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
	Initial								NA	
	No	Parameters			Taken					

Analytical Suite
- ☑ VOCs
- ☐ Metals
- ☐ QA/QC
- ☐ Other

Sample Description
- ☐ clear
- ☑ cloudy
- ☐ color *
- ☐ odor *

Notes

* Describe color / odor

Muddy
Cloudy, stain, No odor

Bailer

Sampler Signature

Sample Time

H&S Protective Level Dermal: √D C B
Respiratory: √D C B

Well Screening PID 0.0 ppm

Checked By:
Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID	Date	Purge Equipment	Water Quality Instrumentation
MWM F07A	07/05/2018	☐ Dedicated Bladder Pump	☐ QED FC5000 √ ☐ Solinst Water Level Meter
Samplers	Time 24 Hr	☐ Disposable Bailer	√ ☐ YSI 556 MPS ☐ HACH 2100P Turbidity
BF	1705	☐ Peristaltic Pump	
Casing Diameter	Study Area	☐	Instrument Calibration / Time / Initials
2" inches		Sample Equipment	Parameter / Initial (temp) / Final (temp) / Cal Std/ Lot #/ Exp. Date
Total Well Depth	Screened Interval	☐ Dedicated Bladder Pump	Temp °C
35.18 ft.btoc	ft.btoc	☐ Disposable Bailer	pH(1st pt) — 7.00
Initial Water Level	Pump Intake	☑ Peristaltic Pump	pH(2nd pt) — 10.00
15.27 ft.btoc	32.00 ft.btoc	☐	ORP — 220mV
Saturated Thickness	Sample Interval	Filtration Equipment	Conduct. — 1413µS/cm
ft	32.00 ft.btoc	☐ 0.45um	DO %
Casing / WB Volume	Final Water Level	☐ Other:	Calibration Notes / Comments
gal	NA	√ ☐ NA	SN:
Total Purge Volume x3	ft.btoc	Water Level during purge (low flow) NA	Sampling Event **Lowry**
		Total Purge Volume	☐ Longterm ☐ Performance
			Condition of Well, Pump, Well Vault: good

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1645	Initial	0.1	14.22	7.50	3.21		139.9	2,473	NA	Cloudy. N/S N/O
1750		0.3	14.22	7.42	2.29		139.6	2,477	N/A	SAA
1755		0.6	13.99	7.37	1.55		136.7	2,578	N/A	SAA
1700		0.9	14.19	7.32	0.98		134.8	2,781	N/A	SAA
1705		1.2	14.10	7.25	0.40		131.9	2,935	N/A	SAA

Analytical Suite

- ☑ VOCs
- ☐ Metals _____
- ☐ QA/QC _____
- ☐ Other _____

Sample Description

- ☐ clear
- ☑ cloudy
- ☐ color *
- ☐ odor *

Notes

* Describe color / odor: Cloudy, N/S, N/O

100 mL/min

Sampler Signature

Sample Time

H&S Protective Level Dermal: √D C B — Respiratory: √D C B

Well Screening PID ppm

Checked By:

Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID	Date
IRAMW17	07/05/2018
Samplers	**Time**
BF	1555 24 Hr
Casing Diameter	**Study Area**
2" inches	
Total Well Depth	**Screened Interval**
24.13 ft.btoc	22.50 ft.btoc
Initial Water Level	**Pump Intake**
10.80 ft.btoc	22.50 ft.btoc
Saturated Thickness	**Sample Interval**
ft	ft.btoc
Casing / WB Volume	**Final Water Level**
gal	NA ft.btoc
Total Purge Volume x3	

Purge Equipment
- ☐ Dedicated Bladder Pump
- ☐ Disposable Bailer
- ☑ Peristaltic Pump
- ☐ _____

Sample Equipment
- ☐ Dedicated Bladder Pump
- ☐ Disposable Bailer
- ☑ Peristaltic Pump
- ☐ _____

Filtration Equipment
- ☐ 0.45um
- ☐ Other: _____
- √ ☑ NA

Water Level during purge (low flow)
NA

Total Purge Volume

Water Quality Instrumentation
- ☐ QED FC5000 √
- ☑ Solinst Water Level Meter
- √ ☑ YSI 556 MPS
- ☐ HACH 2100P Turbidity

Instrument Calibration	Time	Initials

Parameter	Initial (temp)	Final (temp)	Cal Std/ Lot #/ Exp. Date
Temp °C			
pH(1st pt)			7.00
pH(2nd pt)			10.00
ORP			220mV
Conduct.			1413µS/cm
DO %			

Calibration Notes / Comments
SN:1

Sampling Event Lowry

☐ Longterm ☐ Performance

Condition of Well, Pump, Well Vault

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1535	Initial	0.1	13.55	7.36	3.08		137.8	2,914	NA	Cloudy, N/s, N/o
1540		0.3	13.35	7.27	1.28		137.0	2,872	NA	SAA
1545		0.6	13.57	7.22	0.36		131.4	2,839	NA	Clear, N/s, N/o
1550		0.9	13.57	7.20	0.31		128.7	2,831	NA	SAA
1555		1.2	13.41	7.20	0.31		127.3	2,830	NA	SAA

Analytical Suite
- ☑ VOCs
- ☐ Metals _____
- ☐ QA/QC _____
- ☐ Other _____

Sample Description
- ☑ clear
- ☐ cloudy
- ☐ color *
- ☐ odor *

Sample Time

Notes
* Describe color / odor
Clear, N/s, N/o

100 mL/min

Sampler Signature

H&S Protective Level Dermal: √D C B
Respiratory: √D C B

Well Screening PID 19.75 ppm

Checked By:
Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID	Date	Purge Equipment	Water Quality Instrumentation
IRAMW18	07/05/2018	☐ Dedicated Bladder Pump	☐ QED FC5000 √ ■ Solinst Water Level Meter
Samplers	Time 24 Hr	☐ Disposable Bailer	√ ■ YSI 556 MPS ☐ HACH 2100P Turbidity
BF	1635	☑ Peristaltic Pump	
Casing Diameter	Study Area	Sample Equipment	Instrument Calibration / Time / Initials
2" inches		☐ Dedicated Bladder Pump	Parameter: Initial (temp) / Final (temp) / Cal Std/ Lot #/ Exp. Date
Total Well Depth	Screened Interval	☑ Disposable Bailer	Temp °C:
15.16 ft.btoc	ft.btoc	☑ Peristaltic Pump	pH(1st pt): 7.00
Initial Water Level	Pump Intake	Filtration Equipment	pH(2nd pt): 10.00
7.47 ft.btoc	13.50 ft.btoc	☐ 0.45um	ORP: 220mV
Saturated Thickness	Sample Interval	☐ Other:	Conduct.: 1413µS/cm
ft	13.50 ft.btoc	√ ■ NA	DO %:
Casing / WB Volume gal	Final Water Level NA ft.btoc	Water Level during purge (low flow) NA	Calibration Notes / Comments: SN:
Total Purge Volume x3		Total Purge Volume	Sampling Event: Lowry
			☐ Longterm ☐ Performance
			Condition of Well, Pump, Well Vault: good

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1615	Initial	0.1	13.90	7.30	1.72		134.2	2709	NA	cloudy, NS, NO
1620		0.3	13.92	7.18	0.56		134.7	2,712	NA	clear, NS, NO
1625		0.6	13.88	7.13	0.30		131.7	2,715	NA	SAA
1630		0.9	13.75	7.12	0.29		130.1	2,718	NA	SAA
1635		1.2	13.78	7.10	0.28		128.3	2,717	NA	SAA

Analytical Suite	Sample Description	Notes
■ √ VOCs	☐ clear	* Describe color / odor
☐ Metals ____	☐ cloudy	
☐ QA/QC ____	☐ color *	Sampler Signature
☐ Other ____	☐ odor *	
Sample Time		100 mL/min

H&S	Protective Level Dermal: √D C B	Well Screening	PID ppm	0.0	Checked By:
	Respiratory: √D C B				Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID	Date	Purge Equipment	Water Quality Instrumentation
IRAM W24R	07/05/2018	☐ Dedicated Bladder Pump	☐ QED FC5000 √ ☐ Solinst Water Level Meter
Samplers	Time 24 Hr	☐ Disposable Bailer	√ ☐ YSI 556 MPS ☐ HACH 2100P Turbidity
BF	1435	☐ Peristaltic Pump	Instrument Calibration / Time / Initials
Casing Diameter	Study Area	☐	Parameter / Initial (temp) / Final (temp) / Cal Std/ Lot #/ Exp. Date
2" inches		Sample Equipment	Temp °C / / /
Total Well Depth	Screened Interval	☐ Dedicated Bladder Pump	pH(1st pt) / / / 7.00
13.60 ft.btoc	ft.btoc	☐ Disposable Bailer	pH(2nd pt) / / / 10.00
Initial Water Level	Pump Intake	☐ Peristaltic Pump	ORP / / / 220mV
4.04 ft.btoc	12.00 ft.btoc	☐	Conduct. / / / 1413µS/cm
Saturated Thickness	Sample Interval	Filtration Equipment	DO % / / /
ft	12.00 ft.btoc	☐ 0.45um ☐ Other: √ ☐ NA	Calibration Notes / Comments
Casing / WB Volume gal	Final Water Level NA ft.btoc	Water Level during purge (low flow) NA	Sampling Event **Lowry**
Total Purge Volume x3		Total Purge Volume	☐ **Longterm** ☐ **Performance**
			Condition of Well, Pump, Well Vault

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1415	Initial	0.1	16.16	7.42	2.79		130.9	3,491	NA	Cloudy, N/S, N/O
1420		0.3	15.62	7.38	1.41		139.6	3,451	NA	Clear, N/S, N/O
1425		0.6	15.53	7.37	0.56		140.0	3,441	NA	SAA
1430		0.9	14.41	7.33	0.29		132.1	3,415	NA	SAA
1435		1.2	14.91	7.29	0.26		125.6	3,434	NA	SAA

Analytical Suite	Sample Description	Notes
☐ VOCs	☐ clear	* Describe color / odor
☐ Metals ____	☐ cloudy	Clear, N/S, N/O
☐ QA/QC ____	☐ color *	Sampler Signature
☐ Other ____	☐ odor *	
Sample Time		150 mL/min

H&S		Well Screening	PID		Checked By:
Protective Level Dermal:	√D C B		ppm	0.0	Date:
Respiratory:	√D C B				

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID	Date	Purge Equipment	Water Quality Instrumentation
MWCA03A	07/05/2018	☐ Dedicated Bladder Pump	☐ QED FC5000 √ ☐ Solinst Water Level Meter
Samplers	Time 24 Hr	☐ Disposable Bailer	√ ☐ YSI 556 MPS ☐ HACH 2100P Turbidity
BF	1305	☑ Peristaltic Pump	
Casing Diameter	Study Area	☐	Instrument Calibration / Time / Initials
2" inches		Sample Equipment	Parameter / Initial (temp) / Final (temp) / Cal Std/ Lot #/ Exp. Date
Total Well Depth	Screened Interval	☐ Dedicated Bladder Pump	Temp °C
23.76 ft.btoc	ft.btoc	☐ Disposable Bailer	pH(1st pt) — 7.00
Initial Water Level	Pump Intake	☑ Peristaltic Pump	pH(2nd pt) — 10.00
14.52 ft.btoc	21.0 ft.btoc	☐	ORP — 220mV
Saturated Thickness	Sample Interval	Filtration Equipment	Conduct. — 1413µS/cm
ft	ft.btoc	☐ 0.45um	DO %
Casing / WB Volume	Final Water Level	☐ Other:	Calibration Notes / Comments
gal	NA	√ ☐ NA	Sampling Event **Lowry**
Total Purge Volume x3	ft.btoc	Water Level during purge (low flow) NA	☐ Longterm ☐ Performance
		Total Purge Volume	Condition of Well, Pump, Well Vault

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1245	Initial	0.1	15.75	7.51	3.05		53.6	3,088	NA	Cloudy, N/S, N/O
1250		0.3	15.19	7.31	0.43		15.9	3,039	NA	Cloudy, N/S, N/O
1255		0.6	14.87	7.19	0.37		3.0	3,026	NA	SAA
1300		0.9	14.60	7.17	0.35		1.1	3,027	NA	SAA
1305		1.2	14.89	7.15	0.34		-1.1	3,032	NA	SAA

Analytical Suite
- ☑ VOCs
- ☐ Metals
- ☐ QA/QC
- ☐ Other

Sample Description
- ☐ clear
- ☑ cloudy
- ☐ color *
- ☐ odor *

Notes
* Describe color / odor: Cloudy, N/S, N/O

100 mL/min

Sampler Signature

Sample Time

H&S Protective Level Dermal: √D C B
Respiratory: √D C B

Well Screening PID ppm: 0.0

Checked By:
Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID MWC M01 MWC M01 BF	Date 07/06/2018	Purge Equipment: ☐ Dedicated Bladder Pump ☐ Disposable Bailer ☑ Peristaltic Pump ☐	Water Quality Instrumentation: ☐ QED FC5000 √ ■ Solinst Water Level Meter √ ■ YSI 556 MPS ☐ HACH 2100P Turbidity
Samplers BF	Time 0935 24 Hr		Instrument Calibration / Time / Initials
Casing Diameter 2" inches	Study Area	Sample Equipment: ☐ Dedicated Bladder Pump ☐ Disposable Bailer ☑ Peristaltic Pump ☐	Parameter / Initial (temp) / Final (temp) / Cal Std/ Lot #/ Exp. Date Temp °C pH(1st pt) 7.00 pH(2nd pt) 10.00 ORP 220mV Conduct. 1413µS/cm DO %
Total Well Depth 16.88 ft.btoc	Screened Interval ft.btoc		
Initial Water Level 7.30 ft.btoc	Pump Intake ft.btoc	Filtration Equipment: ☐ 0.45um ☐ Other: √ ■ NA	Calibration Notes / Comments
Saturated Thickness ft	Sample Interval ft.btoc		Sampling Event **Lowry** ☐ **Longterm** ☐ **Performance**
Casing / WB Volume gal Total Purge Volume x3	Final Water Level NA ft.btoc	Water Level during purge (low flow) NA Total Purge Volume	Condition of Well, Pump, Well Vault: good, missing bolts

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
0915	Initial	0.1	16.22	7.30	1.60		129.4	4202	NA	cloudy, N/S, N/O
0920		0.3	15.46	7.16	0.32		126.5	4,563	NA	SAA
0925		0.6	14.96	7.11	0.25		121.2	4,615	NA	SAA
0930		0.9	14.73	7.09	0.23		118.2	4,620	NA	clear, N/S, N/O
0935		1.2	14.49	7.07	0.22		115.3	4,6222	N/A	SAA

Analytical Suite: ■ VOCs ☐ Metals ☐ QA/QC ☐ Other	Sample Description: ☑ clear ☐ cloudy ☐ color * ☐ odor *	Notes: * Describe color / odor: Clear, N/S, N/O	Sampler Signature
Sample Time		100 mL / min	
H&S: Protective Level Dermal: √D C B; Respiratory: √D C B	Well Screening	PID ppm	Checked By: Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID MWCM03 (BF)	Date 07/06/2018	Purge Equipment: ☐ Dedicated Bladder Pump; ☐ Disposable Bailer; ☑ Peristaltic Pump; ☐	Water Quality Instrumentation: ☐ QED FC5000 √; ☐ Solinst Water Level Meter; √ ☐ YSI 556 MPS; ☐ HACH 2100P Turbidity
Samplers: BF	Time: 1010 (24 Hr)		
Casing Diameter: 2" inches	Study Area	Sample Equipment: ☐ Dedicated Bladder Pump; ☐ Disposable Bailer; ☑ Peristaltic Pump; ☐	
Total Well Depth: 17.92 ft.btoc	Screened Interval: 8-18 ft.btoc		
Initial Water Level: 8.82 ft.btoc	Pump Intake: 15.50 ft.btoc	Filtration Equipment: ☐ 0.45um; ☐ Other:	Calibration Notes / Comments: SN:
Saturated Thickness: ft	Sample Interval: 15.50 ft.btoc	√ ☐ NA	Sampling Event: Lowry; ☐ Longterm ☐ Performance
Casing / WB Volume: gal; Total Purge Volume x3	Final Water Level: NA ft.btoc	Water Level during purge (low flow): NA; Total Purge Volume	Condition of Well, Pump, Well Vault: good

Instrument Calibration	Time	Initials
Parameter	Initial (temp)	Final (temp)	Cal Std/ Lot #/ Exp. Date
Temp °C			
pH(1st pt)			7.00
pH(2nd pt)			10.00
ORP			220mV
Conduct.			1413µS/cm
DO %			

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
0950	Initial	0.1	15.01	7.21	0.73		114.4	3,581	NA	Cloudy, N/S, N/O
0955		0.3	14.99	7.19	0.58		113.7	3,566	N/A	SAA
1000		0.6	15.10	7.18	0.54		112.4	3,558	NA	SAA
1005		0.9	15.15	7.17	0.52		111.9	3,558	NA	SAA
1010		1.2	15.20	7.17	0.49		111.6	3,553	NA	SAA

Analytical Suite: ☑ VOCs; ☐ Metals ____; ☐ QA/QC ____; ☐ Other ____

Sample Description: ☑ clear; ☐ cloudy; ☐ color *; ☐ odor *

Notes: * Describe color / odor: Clear, N/S, N/O

100 mL/min

Sampler Signature

Sample Time

H&S: Protective Level Dermal: √D C B; Respiratory: √D C B

Well Screening: PID ppm: 0.0

Checked By:

Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID: TWOFR-01	Date: 07/06/2018	Purge Equipment: ☐ Dedicated Bladder Pump; ☐ Disposable Bailer; ☑ Peristaltic Pump; ☐	Water Quality Instrumentation: ☐ QED FC5000 √; ■ Solinst Water Level Meter; √ ■ YSI 556 MPS; ☐ HACH 2100P Turbidity
Samplers: BF	Time: 0850 24 Hr		
Casing Diameter: 2" inches	Study Area:	Sample Equipment: ☐ Dedicated Bladder Pump; ☐ Disposable Bailer; ☑ Peristaltic Pump; ☐	
Total Well Depth: 15.29 ft.btoc	Screened Interval: ft.btoc		
Initial Water Level: 8.47 ft.btoc	Pump Intake: 13.25 ft.btoc	Filtration Equipment: ☐ 0.45um; ☐ Other:	Calibration Notes / Comments: SN:
Saturated Thickness: ft	Sample Interval: 13.25 ft.btoc	√ ■ NA	Sampling Event: **Lowry**
Casing / WB Volume: gal	Final Water Level: NA ft.btoc	Water Level during purge (low flow): NA	☐ **Longterm** ☐ **Performance**
Total Purge Volume x3		Total Purge Volume	Condition of Well, Pump, Well Vault: good

Instrument Calibration	Time	Initials
Parameter	Initial (temp)	Final (temp)	Cal Std/ Lot #/ Exp. Date
Temp °C			
pH(1st pt)			7.00
pH(2nd pt)			10.00
ORP			220mV
Conduct.			1413µS/cm
DO %			

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
0830	Initial	0.1	16.29	7.31	1.83	138.5	7,529	NA	Cloudy, N/S, N/O
0835		0.3	16.59	7.25	0.52	135.5	7,500	NA	SAA
0840		0.6	16.64	7.19	0.36	132.4	7,441	NA	SAA
0845		0.9	16.62	7.11	0.34	129.0	7,394	NA	Clear, N/S, N/O
0850		1.2	16.55	7.05	0.39	126.4	7,404	NA	SAA

Analytical Suite
- ■ √ VOCs
- ☐ Metals _____
- ☐ QA/QC _____
- ☐ Other _____

Sample Description
- ☑ clear
- ☐ cloudy
- ☐ color *
- ☐ odor *

Notes
* Describe color / odor
Clear, N/S, N/O

100 mL /min

Sample Time

Sampler Signature

H&S	Protective Level Dermal: √D C B	Well Screening	PID	0.10	Checked By:
	Respiratory: √D C B		ppm		Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID	Date	Purge Equipment	Water Quality Instrumentation
TwPBR07	07/06/2018	☐ Dedicated Bladder Pump	☐ QED FC5000 √ ☐ Solinst Water Level Meter
Samplers: BF	Time: 0750 24 Hr	☑ Disposable Bailer ☑ Peristaltic Pump ☐	√ ☐ YSI 556 MPS ☐ HACH 2100P Turbidity
Casing Diameter: 2" inches	Study Area	Sample Equipment: ☐ Dedicated Bladder Pump ☐ Disposable Bailer ☑ Peristaltic Pump ☐	Instrument Calibration / Time / Initials
Total Well Depth: 23.69 ft.btoc	Screened Interval: ~~21.50~~ BF ft.btoc		
Initial Water Level: 15.02 ft.btoc	Pump Intake: 21.50 ft.btoc	Filtration Equipment: ☐ 0.45um ☐ Other: √ ☐ NA	Calibration Notes / Comments: SN:
Saturated Thickness: ft	Sample Interval: 21.50 ft.btoc		Sampling Event: Lowry ☐ Longterm ☐ Performance
Casing / WB Volume: gal; Total Purge Volume x3	Final Water Level: NA ft.btoc	Water Level during purge (low flow): NA; Total Purge Volume	Condition of Well, Pump, Well Vault: good

Parameter	Initial (temp)	Final (temp)	Cal Std/ Lot # / Exp. Date
Temp °C			
pH(1st pt)			7.00
pH(2nd pt)			10.00
ORP			220mV
Conduct.			1413µS/cm
DO %			

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
0730	Initial	0.1	14.75	7.18	1.46		150.8	6,250	NA	Cloudy, N/S, N/O
0735		0.3	14.54	7.14	0.60		142.3	6,248	NA	Clear, N/S, N/O
0740		0.6	14.25	7.10	0.45		138.2	6,255	NA	SAA
0745		0.9	14.15	7.07	0.36		133.1	6,259	NA	SAA
0750		1.2	14.21	7.05	0.34		129.5	6,255	NA	SAA

Analytical Suite
- √ VOCs
- ☐ Metals _____
- ☐ QA/QC _____
- ☐ Other _____

Sample Description
- ☑ clear
- ☐ cloudy
- ☐ color *
- ☐ odor *

Notes
* Describe color / odor
Clear, N/S, N/O

100 mL/min

Sampler Signature

Sample Time

H&S Protective Level Dermal: √D C B
Respiratory: √D C B

Well Screening PID 0.0 ppm

Checked By:
Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID: IMOFR01	Date: 07/06/2018	Purge Equipment: ☐ Dedicated Bladder Pump; ☐ Disposable Bailer; ☑ Peristaltic Pump; ☐	Water Quality Instrumentation: ☐ QED FC5000 √; ■ Solinst Water Level Meter; √ ■ YSI 556 MPS; ☐ HACH 2100P Turbidity
Samplers: BF	Time: 1050 24 Hr		Instrument Calibration / Time / Initials
Casing Diameter: 2" inches	Study Area:	Sample Equipment: ☐ Dedicated Bladder Pump; ☐ Disposable Bailer; ☑ Peristaltic Pump; ☐	Parameter / Initial (temp) / Final (temp) / Cal Std/ Lot #/ Exp. Date: Temp °C; pH(1st pt) 7.00; pH(2nd pt) 10.00; ORP 220mV; Conduct. 1413µS/cm; DO %
Total Well Depth: 42.44 ft.btoc	Screened Interval: 32-42 ft.btoc		
Initial Water Level: 8.12 ft.btoc	Pump Intake: 35.0 ft.btoc	Filtration Equipment: ☐ 0.45um; ☐ Other:	Calibration Notes / Comments
Saturated Thickness: ft	Sample Interval: 35.0 ft.btoc	√ ■ NA	Sampling Event: Lowry; ☐ Longterm ☐ Performance
Casing / WB Volume: gal; Total Purge Volume x3	Final Water Level: NA ft.btoc	Water Level during purge (low flow): NA; Total Purge Volume	Condition of Well, Pump, Well Vault: good, missing one bolt

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1030	Initial	0.1	14.94	7.48	2.23		134.4	3,821	NA	Cloudy, N/S, N/O
1035		0.3	15.33	7.36	0.71		133.2	4,665	NA	Clear, N/S, N/O
1040		0.6	15.20	7.31	0.34		125.7	5,029	NA	SAA
1045		0.9	15.22	7.29	0.31		122.7	5,145	NA	SAA
1050		1.2	15.20	7.27	0.29		118.8	5,286	NA	SAA

Analytical Suite: ■ √ VOCs; ☐ Metals; ☐ QA/QC; ☐ Other	Sample Description: ☐ clear; ☐ cloudy; ☐ color *; ☐ odor *	Notes: * Describe color / odor: Clear, N/S, N/O	Sampler Signature
Sample Time		100 mL/min	
H&S: Protective Level Dermal: √D C B; Respiratory: √D C B	Well Screening: PID ppm: 0.0		Checked By: Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID	Date	Purge Equipment	Water Quality Instrumentation
MWCA07	07/06/2018	☐ Dedicated Bladder Pump	☐ QED FC5000 √ ■ Solinst Water Level Meter
Samplers	Time 24 Hr	☐ Disposable Bailer	√ ■ YSI 556 MPS ☐ HACH 2100P Turbidity
BF	1150	☐ Peristaltic Pump	
Casing Diameter	Study Area	☐	
2" inches		Sample Equipment	
Total Well Depth	Screened Interval	☐ Dedicated Bladder Pump	
24.16 ft.btoc	ft.btoc	☐ Disposable Bailer	
Initial Water Level	Pump Intake	☐ Peristaltic Pump	
12.05 ft.btoc	ft.btoc	☐	
Saturated Thickness	Sample Interval	Filtration Equipment	
ft	ft.btoc	☐ 0.45um	
		☐ Other:	
		√ ■ NA	
Casing / WB Volume gal	Final Water Level	Water Level during purge (low flow)	
Total Purge Volume x3	NA ft.btoc	NA Total Purge Volume	

Instrument Calibration	Time	Initials
Parameter	Initial (temp)	Final (temp)	Cal Std/ Lot #/ Exp. Date
Temp °C			
pH(1st pt)			7.00
pH(2nd pt)			10.00
ORP			220mV
Conduct.			1413µS/cm
DO %			

Calibration Notes / Comments

Sampling Event **Lowry**

☐ **Longterm** ☐ **Performance**

Condition of Well, Pump, Well Vault: good, missing bolts

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1130	Initial	0.1	12.38	7.45	4.10		146.1	6,016	NA	Cloudy, N/S, N/O
1135		0.3	11.90	7.24	1.58		142.8	5,816	NA	SAA
1140		0.6	11.81	7.14	0.92		130.8	5,547	NA	SAA
1145		0.9	11.85	7.11	0.84		126.5	5,494	NA	SAA
1150		1.2	11.84	7.08	0.83		123.1	5,453	N/A	Clear, N/S, N/O

Analytical Suite
- ■ VOCs
- ☐ Metals _____
- ☐ QA/QC _____
- ☐ Other _____

Sample Description
- ☐ clear
- ☐ cloudy
- ☐ color *
- ☐ odor *

Notes
* Describe color / odor
Clear, N/S, N/O

100 mL/min

Sampler Signature

Sample Time

H&S Protective Level Dermal: √D C B
Respiratory: √D C B

Well Screening PID 0.0 ppm

Checked By:
Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID: MWCA 08	Date: 07/06/2018	Purge Equipment: ☐ Dedicated Bladder Pump; ☐ Disposable Bailer; ☑ Peristaltic Pump; ☐	Water Quality Instrumentation: ☐ QED FC5000 √; ☗ Solinst Water Level Meter; √ ☗ YSI 556 MPS; ☐ HACH 2100P Turbidity
Samplers: BF	Time: 1235 24 Hr		
Casing Diameter: 2" inches	Study Area:	Sample Equipment: ☐ Dedicated Bladder Pump; ☐ Disposable Bailer; ☑ Peristaltic Pump; ☐	
Total Well Depth: 36.15 ft.btoc	Screened Interval: ft.btoc		
Initial Water Level: 10.33 ft.btoc	Pump Intake: ft.btoc	Filtration Equipment: ☐ 0.45um; ☐ Other:	Calibration Notes / Comments: SN:
Saturated Thickness: ft	Sample Interval: ft.btoc	√ ☗ NA	Sampling Event: Lowry; ☐ Longterm ☐ Performance
Casing / WB Volume: gal; Total Purge Volume x3	Final Water Level: NA ft.btoc	Water Level during purge (low flow): NA; Total Purge Volume	Condition of Well, Pump, Well Vault: good

Instrument Calibration	Time	Initials
Parameter	Initial (temp)	Final (temp)	Cal Std/ Lot #/ Exp. Date
Temp °C			
pH(1st pt)			7.00
pH(2nd pt)			10.00
ORP			220mV
Conduct.			1413µS/cm
DO %			

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1215	Initial	0.1	12.68	7.45	9.85		136.0	5533	NA	Cloudy, N/S, N/O
1220		0.3	12.55	7.44	7.74		134.0	5532	N/A	SAA
1225		0.6	12.48	7.40	7.76		126.0	5,504	N/A	SAA
1230		0.9	12.38	7.37	7.82		123.0	5,407	N/A	SAA
1235		1.2	12.38	7.38	7.85		121.8	5,370	N/A	SAA

Analytical Suite	Sample Description	Notes
☗ √ VOCs	☐ clear	* Describe color / odor: Clear, N/S, N/O
☐ Metals ____	☐ cloudy	
☐ QA/QC ____	☐ color *	Sampler Signature
☐ Other ____	☐ odor *	100 mL / min
Sample Time		

H&S	Well Screening	PID		Checked By:
Protective Level Dermal: √D C B		ppm		Date:
Respiratory: √D C B				

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID	Date	Purge Equipment	Water Quality Instrumentation
MW FT07	07/06/2018	☐ Dedicated Bladder Pump	☐ QED FC5000 √ ■ Solinst Water Level Meter
Samplers: BF	Time: 1310 24 Hr	☐ Disposable Bailer	√ ■ YSI 556 MPS ☐ HACH 2100P Turbidity
Casing Diameter: 2" inches	Study Area	☐ Peristaltic Pump ☐	Instrument Calibration / Time / Initials
Total Well Depth: 36.20 ft.btoc	Screened Interval: ft.btoc	Sample Equipment: ☐ Dedicated Bladder Pump ☐ Disposable Bailer ☐ Peristaltic Pump ☐	Parameter / Initial (temp) / Final (temp) / Cal Std/ Lot #/ Exp. Date
Initial Water Level: 13.65 ft.btoc	Pump Intake: ft.btoc	Filtration Equipment: ☐ 0.45um ☐ Other: √ ■ NA	Calibration Notes / Comments
Saturated Thickness: ft	Sample Interval: ft.btoc		Sampling Event: Lowry ☐ Longterm ☐ Performance
Casing / WB Volume: gal; Total Purge Volume x3	Final Water Level: NA ft.btoc	Water Level during purge (low flow): NA; Total Purge Volume	Condition of Well, Pump, Well Vault: good

Temp °C			
pH(1st pt)			7.00
pH(2nd pt)			10.00
ORP			220mV
Conduct.			1413µS/cm
DO %			

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1250	Initial	0.1	12.65	7.36	3.77		121.5	6,184	NA	cloudy, N/S, N/O
1255		0.3	12.59	7.30	2.32		120.0	6,176	NA	SAA
1300		0.6	12.47	7.23	1.27		117.9	6,143	NA	SAA
1305		0.9	12.47	7.17	0.75		115.9	6,084	NA	clear, N/S, N/O
1310		1.2	12.46	7.15	0.76		114.3	5,972	NA	SAA

Analytical Suite
- ■ √ VOCs
- ☐ Metals _____
- ☐ QA/QC _____
- ☐ Other _____

Sample Description
- ☑ clear
- ☐ cloudy
- ☐ color *
- ☐ odor *

Notes
* Describe color / odor
Clear, N/S, N/O

100 mL/min

Sample Time

Sampler Signature

H&S Protective Level Dermal: √D C B
Respiratory: √D C B

Well Screening PID 0.0 ppm

Checked By:
Date:

Lowry Assumption, L.L.C.

Groundwater Sampling Field Data Sheet

Well ID	Date	Purge Equipment	Water Quality Instrumentation
MWCT01	07/05/2018	☐ Dedicated Bladder Pump	☐ QED FC5000 √ ☐ Solinst Water Level Meter
Samplers	Time (24 Hr)	☐ Disposable Bailer	√ ■ YSI 556 MPS ☐ HACH 2100P Turbidity
BF		☑ Peristaltic Pump	Instrument Calibration / Time / Initials
Casing Diameter	Study Area	☐	Parameter / Initial (temp) / Final (temp) / Cal Std/ Lot #/ Exp. Date
2" inches		Sample Equipment	Temp °C
Total Well Depth	Screened Interval	☐ Dedicated Bladder Pump	pH(1st pt) 7.00
32.88 ft.btoc	7 ft.btoc	☐ Disposable Bailer	pH(2nd pt) 10.00
Initial Water Level	Pump Intake	☑ Peristaltic Pump	ORP 220mV
5.75 ft.btoc	29.0 ft.btoc	☐	Conduct. 1413µS/cm
Saturated Thickness	Sample Interval	Filtration Equipment	DO %
ft	29.0 ft.btoc	☐ 0.45um	Calibration Notes / Comments
Casing / WB Volume	Final Water Level	☐ Other:	Sampling Event **Lowry**
gal	NA	√ ■ NA	☐ **Longterm** ☐ **Performance**
Total Purge Volume x3	ft.btoc	Water Level during purge (low flow) NA Total Purge Volume	Condition of Well, Pump, Well Vault

Time 24 Hr	Casing Volume	Gallons Removed	Temp C / F	pH	DO mg/L	DO %	ORP	Conductivity us/cm	Turbidity NTU	Visual Description
1330	Initial	0.1	14.62	7.33	2.66		126.0	2,963	NA	Cloudy, N/S, N/O
1335		0.3	14.01	7.34	1.54		107.4	2958	NA	Clear, N/S, N/O
1340		0.6	14.90	7.30	1.39		106.3	2,961	NA	SAA
1345		0.9	15.09	7.25	1.32		105.4	2,962	NA	SAA
1350		1.2	14.98	7.23	1.26		105.1	2,964	NA	SAA

Analytical Suite	Sample Description	Notes
■ VOCs	☑ clear	* Describe color / odor
☐ Metals _____	☐ cloudy	Clear, N/S, N/O
☐ QA/QC _____	☐ color *	Sampler Signature
☐ Other _____	☐ odor *	
Sample Time		100 mL/min

H&S	Protective Level Dermal: √D C B	Well Screening	PID	1.55	Checked By:
	Respiratory: √D C B		ppm		Date:

ATTACHMENT 2: GROUNDWATER LABORATORY ANALYTICAL REPORTS

ChemSolutions

7388 S. Revere Parkway, Suite 805
Centennial, CO 80112
303.771.5570

July 17, 2018

Chris Purcell
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003

RE: LTE1139

Dear Chris,

Enclosed please find the analytical results for the Project #LAC OU5 water samples collected on 7/5-7/6/18.

Thank you for the opportunity to work on this project. Please call if you have any questions. The invoice will be sent separately.

Sincerely,

John Graves
Laboratory Director
ChemSolutions LLC

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCA03A
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	3.4	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	60	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCA03A
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	103	8260C	64-150
1,2-Dichloroethane-D4	104	8260C	60-150
Toluene-D8	98.9	8260C	80-120
Bromofluorobenzene	90.5	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCM01
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	19	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCM01
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	105	8260C	64-150
1,2-Dichloroethane-D4	108	8260C	60-150
Toluene-D8	99.5	8260C	80-120
Bromofluorobenzene	89.5	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCM03
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCM03
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	108	8260C	64-150
1,2-Dichloroethane-D4	109	8260C	60-150
Toluene-D8	98.8	8260C	80-120
Bromofluorobenzene	93.3	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: TWOFR-01
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	6.8	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	29	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: TWOFR-01
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	106	8260C	64-150
1,2-Dichloroethane-D4	105	8260C	60-150
Toluene-D8	98.4	8260C	80-120
Bromofluorobenzene	91.5	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: TWPBR07
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	13	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	56	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: TWPBR07
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	106	8260C	64-150
1,2-Dichloroethane-D4	107	8260C	60-150
Toluene-D8	100	8260C	80-120
Bromofluorobenzene	90.0	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: IMOFR01
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	100	ug/L	20	7/13/2018	8260C	
Chloromethane	ND	100	ug/L	20	7/13/2018	8260C	
Vinyl Chloride	ND	40	ug/L	20	7/13/2018	8260C	
Bromomethane	ND	100	ug/L	20	7/13/2018	8260C	
Chloroethane	ND	100	ug/L	20	7/13/2018	8260C	
Trichlorofluoromethane	ND	100	ug/L	20	7/13/2018	8260C	
Acetone	ND	400	ug/L	20	7/13/2018	8260C	
1,1-Dichloroethene	ND	40	ug/L	20	7/13/2018	8260C	
Carbon Disulfide	ND	100	ug/L	20	7/13/2018	8260C	
Methylene Chloride	ND	100	ug/L	20	7/13/2018	8260C	
Methyl-t-butyl ether	ND	100	ug/L	20	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	40	ug/L	20	7/13/2018	8260C	
1,1-Dichloroethane	ND	40	ug/L	20	7/13/2018	8260C	
2-Butanone	ND	200	ug/L	20	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	40	ug/L	20	7/13/2018	8260C	
Bromochloromethane	ND	100	ug/L	20	7/13/2018	8260C	
Chloroform	ND	100	ug/L	20	7/13/2018	8260C	
Tetrahydrofuran	ND	200	ug/L	20	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	40	ug/L	20	7/13/2018	8260C	
1,1-Dichloropropene	ND	100	ug/L	20	7/13/2018	8260C	
Carbon Tetrachloride	ND	40	ug/L	20	7/13/2018	8260C	
Benzene	ND	40	ug/L	20	7/13/2018	8260C	
1,2-Dichloroethane	ND	40	ug/L	20	7/13/2018	8260C	
Trichloroethene	1700	40	ug/L	20	7/13/2018	8260C	
1,2-Dichloropropane	ND	100	ug/L	20	7/13/2018	8260C	
Dibromomethane	ND	100	ug/L	20	7/13/2018	8260C	
Bromodichloromethane	ND	100	ug/L	20	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	100	ug/L	20	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	200	ug/L	20	7/13/2018	8260C	
Toluene	ND	100	ug/L	20	7/13/2018	8260C	
2-Hexanone	ND	200	ug/L	20	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	100	ug/L	20	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	40	ug/L	20	7/13/2018	8260C	
1,3-Dichloropropane	ND	100	ug/L	20	7/13/2018	8260C	
Tetrachloroethene	ND	40	ug/L	20	7/13/2018	8260C	
Dibromochloromethane	ND	100	ug/L	20	7/13/2018	8260C	
1,2-Dibromoethane	ND	100	ug/L	20	7/13/2018	8260C	
Chlorobenzene	ND	40	ug/L	20	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	100	ug/L	20	7/13/2018	8260C	
Ethylbenzene	ND	100	ug/L	20	7/13/2018	8260C	
Total Xylene	ND	100	ug/L	20	7/13/2018	8260C	
Styrene	ND	100	ug/L	20	7/13/2018	8260C	
Isopropylbenzene	ND	100	ug/L	20	7/13/2018	8260C	
Bromoform	ND	100	ug/L	20	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: IMOFR01
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	100	ug/L	20	7/13/2018	8260C	
Bromobenzene	ND	100	ug/L	20	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	100	ug/L	20	7/13/2018	8260C	
2-Chlorotoluene	ND	100	ug/L	20	7/13/2018	8260C	
4-Chlorotoluene	ND	100	ug/L	20	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	100	ug/L	20	7/13/2018	8260C	
t-Butylbenzene	ND	100	ug/L	20	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	100	ug/L	20	7/13/2018	8260C	
sec-Butylbenzene	ND	100	ug/L	20	7/13/2018	8260C	
p-Isopropyltoluene	ND	100	ug/L	20	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	100	ug/L	20	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	100	ug/L	20	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	100	ug/L	20	7/13/2018	8260C	
n-Butylbenzene	ND	100	ug/L	20	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	100	ug/L	20	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	100	ug/L	20	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	100	ug/L	20	7/13/2018	8260C	
Hexachlorobutadiene	ND	100	ug/L	20	7/13/2018	8260C	
Naphthalene	ND	100	ug/L	20	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	100	ug/L	20	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	113	8260C	64-150
1,2-Dichloroethane-D4	117	8260C	60-150
Toluene-D8	99.1	8260C	80-120
Bromofluorobenzene	89.8	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCA07
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	7.5	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCA07
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	123	8260C	64-150
1,2-Dichloroethane-D4	127	8260C	60-150
Toluene-D8	101	8260C	80-120
Bromofluorobenzene	89.4	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCA08
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	21	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCA08
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	127	8260C	64-150
1,2-Dichloroethane-D4	129	8260C	60-150
Toluene-D8	103	8260C	80-120
Bromofluorobenzene	90.4	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWFT07
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	10	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWFT07
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	120	8260C	64-150
1,2-Dichloroethane-D4	121	8260C	60-150
Toluene-D8	104	8260C	80-120
Bromofluorobenzene	90.7	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCT01
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	18	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	43	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCT01
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	125	8260C	64-150
1,2-Dichloroethane-D4	128	8260C	60-150
Toluene-D8	103	8260C	80-120
Bromofluorobenzene	88.8	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWHE05
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	17	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWHE05
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	126	8260C	64-150
1,2-Dichloroethane-D4	131	8260C	60-150
Toluene-D8	101	8260C	80-120
Bromofluorobenzene	87.5	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCM05
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	17	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWCM05
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	127	8260C	64-150
1,2-Dichloroethane-D4	128	8260C	60-150
Toluene-D8	103	8260C	80-120
Bromofluorobenzene	88.5	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: IRAMW09R
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	2.5	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	10	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: IRAMW09R
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	127	8260C	64-150
1,2-Dichloroethane-D4	128	8260C	60-150
Toluene-D8	102	8260C	80-120
Bromofluorobenzene	89.4	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: IRAMW02
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	36	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: IRAMW02
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	117	8260C	64-150
1,2-Dichloroethane-D4	118	8260C	60-150
Toluene-D8	102	8260C	80-120
Bromofluorobenzene	89.2	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWHQ08
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	10	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWHQ08
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	116	8260C	64-150
1,2-Dichloroethane-D4	119	8260C	60-150
Toluene-D8	102	8260C	80-120
Bromofluorobenzene	91.3	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWMF02A
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	31	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	10	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	2.3	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	190	20	ug/L	10	7/16/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	54	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	1600	20	ug/L	10	7/16/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWMF02A
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery			Surrogate QC Limits
Dibromofluoromethane	114	8260C	1x	64-150
1,2-Dichloroethane-D4	119	8260C	1x	60-150
Toluene-D8	103	8260C	1x	80-120
Bromofluorobenzene	88.5	8260C	1x	63-135
Dibromofluoromethane	123	8260C	10x	64-150
1,2-Dichloroethane-D4	122	8260C	10x	60-150
Toluene-D8	104	8260C	10x	80-120
Bromofluorobenzene	91.4	8260C	10x	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWMF07A
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	26	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	5.3	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	3.5	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	110	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	25	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	910	20	ug/L	10	7/16/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: MWMF07A
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery			Surrogate QC Limits
Dibromofluoromethane	105	8260C	1x	64-150
1,2-Dichloroethane-D4	109	8260C	1x	60-150
Toluene-D8	100	8260C	1x	80-120
Bromofluorobenzene	91.7	8260C	1x	63-135
Dibromofluoromethane	127	8260C	10x	64-150
1,2-Dichloroethane-D4	127	8260C	10x	60-150
Toluene-D8	102	8260C	10x	80-120
Bromofluorobenzene	89.5	8260C	10x	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: IRAMW17
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	200	100	ug/L	50	7/16/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	6.7	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	19	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	180	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	170	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	2.2	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	6400	100	ug/L	50	7/16/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	5.0	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: IRAMW17
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery			Surrogate QC Limits
Dibromofluoromethane	114	8260C	1x	64-150
1,2-Dichloroethane-D4	116	8260C	1x	60-150
Toluene-D8	100	8260C	1x	80-120
Bromofluorobenzene	90.1	8260C	1x	63-135
Dibromofluoromethane	130	8260C	50x	64-150
1,2-Dichloroethane-D4	132	8260C	50x	60-150
Toluene-D8	105	8260C	50x	80-120
Bromofluorobenzene	95.8	8260C	50x	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: IRAMW18
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	4.1	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: IRAMW18
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	119	8260C	64-150
1,2-Dichloroethane-D4	124	8260C	60-150
Toluene-D8	101	8260C	80-120
Bromofluorobenzene	90.8	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: IRAMW24R
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	8.2	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	2.4	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	29	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	190	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	2.4	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: IRAMW24R
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	116	8260C	64-150
1,2-Dichloroethane-D4	119	8260C	60-150
Toluene-D8	99.3	8260C	80-120
Bromofluorobenzene	89.9	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: B-2
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/16/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/16/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/16/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/16/2018	8260C	
Acetone	ND	20	ug/L	1	7/16/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/16/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/16/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/16/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/16/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloroform	ND	5	ug/L	1	7/16/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/16/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/16/2018	8260C	
Benzene	ND	2	ug/L	1	7/16/2018	8260C	
1,2-Dichloroethane	2.4	2	ug/L	1	7/16/2018	8260C	
Trichloroethene	9.9	2	ug/L	1	7/16/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/16/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/16/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/16/2018	8260C	
Toluene	ND	5	ug/L	1	7/16/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/16/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/16/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/16/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/16/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/16/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/16/2018	8260C	
Styrene	ND	5	ug/L	1	7/16/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Bromoform	ND	5	ug/L	1	7/16/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: B-2
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/5/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/16/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/16/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/16/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/16/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/16/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/16/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	118	8260C	64-150
1,2-Dichloroethane-D4	119	8260C	60-150
Toluene-D8	101	8260C	80-120
Bromofluorobenzene	92.0	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: B-3
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/16/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/16/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/16/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/16/2018	8260C	
Acetone	ND	20	ug/L	1	7/16/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/16/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/16/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/16/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/16/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloroform	ND	5	ug/L	1	7/16/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/16/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/16/2018	8260C	
Benzene	ND	2	ug/L	1	7/16/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
Trichloroethene	11	2	ug/L	1	7/16/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/16/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/16/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/16/2018	8260C	
Toluene	ND	5	ug/L	1	7/16/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/16/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/16/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/16/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/16/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/16/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/16/2018	8260C	
Styrene	ND	5	ug/L	1	7/16/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Bromoform	ND	5	ug/L	1	7/16/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: B-3
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/6/18
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/16/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/16/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/16/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/16/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/16/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/16/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	124	8260C	64-150
1,2-Dichloroethane-D4	126	8260C	60-150
Toluene-D8	102	8260C	80-120
Bromofluorobenzene	90.3	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: Trip Blank
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: NA
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/16/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/16/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/16/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/16/2018	8260C	
Acetone	ND	20	ug/L	1	7/16/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/16/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/16/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/16/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/16/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloroform	ND	5	ug/L	1	7/16/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/16/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/16/2018	8260C	
Benzene	ND	2	ug/L	1	7/16/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
Trichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/16/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/16/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/16/2018	8260C	
Toluene	ND	5	ug/L	1	7/16/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/16/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/16/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/16/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/16/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/16/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/16/2018	8260C	
Styrene	ND	5	ug/L	1	7/16/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Bromoform	ND	5	ug/L	1	7/16/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1139

Client Sample ID: Trip Blank
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: NA
Date Received: 7/6/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/16/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/16/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/16/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/16/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/16/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/16/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	133	8260C	64-150
1,2-Dichloroethane-D4	137	8260C	60-150
Toluene-D8	103	8260C	80-120
Bromofluorobenzene	90.8	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Method Blank Results
Project ID: LTE1139

Sample ID: Blank
Client Project ID: LAC OU5
Sample Matrix: Water

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/13/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/13/2018	8260C	
Acetone	ND	20	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/13/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/13/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/13/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/13/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
Chloroform	ND	5	ug/L	1	7/13/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/13/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/13/2018	8260C	
Benzene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
Trichloroethene	ND	2	ug/L	1	7/13/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/13/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/13/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/13/2018	8260C	
Toluene	ND	5	ug/L	1	7/13/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/13/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/13/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/13/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/13/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/13/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/13/2018	8260C	
Styrene	ND	5	ug/L	1	7/13/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromoform	ND	5	ug/L	1	7/13/2018	8260C	

ChemSolutions LLC
Method Blank Results
Project ID: LTE1139

Sample ID: Blank
Client Project ID: LAC OU5
Sample Matrix: Water

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/13/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/13/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/13/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/13/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/13/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/13/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/13/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	101	8260C	64-150
1,2-Dichloroethane-D4	99.2	8260C	60-150
Toluene-D8	98.1	8260C	80-120
Bromofluorobenzene	94.2	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Method Blank Results
Project ID: LTE1139

Sample ID: Blank
Client Project ID: LAC OU5
Sample Matrix: Water

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/16/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/16/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/16/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/16/2018	8260C	
Acetone	ND	20	ug/L	1	7/16/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/16/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/16/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/16/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/16/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloroform	ND	5	ug/L	1	7/16/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/16/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/16/2018	8260C	
Benzene	ND	2	ug/L	1	7/16/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
Trichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/16/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/16/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/16/2018	8260C	
Toluene	ND	5	ug/L	1	7/16/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/16/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/16/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/16/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/16/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/16/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/16/2018	8260C	
Styrene	ND	5	ug/L	1	7/16/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Bromoform	ND	5	ug/L	1	7/16/2018	8260C	

ChemSolutions LLC
Method Blank Results
Project ID: LTE1139

Sample ID: Blank
Client Project ID: LAC OU5
Sample Matrix: Water

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/16/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/16/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/16/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/16/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/16/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/16/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	118	8260C	64-150
1,2-Dichloroethane-D4	118	8260C	60-150
Toluene-D8	101	8260C	80-120
Bromofluorobenzene	90.2	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Laboratory Control Sample Results
Project ID: LTE1139

Sample ID: LCS
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C Date Analyzed: 7/13/18

ANALYTE	LCS SPIKE	% RECOVERY	UNITS	QC Limits	Qualifier
Dichlorodifluoromethane	ND	NA	ug/L		
Chloromethane	ND	NA	ug/L		
Vinyl Chloride	ND	NA	ug/L		
Bromomethane	ND	NA	ug/L		
Chloroethane	ND	NA	ug/L		
Trichlorofluoromethane	ND	NA	ug/L		
Acetone	ND	NA	ug/L		
1,1-Dichloroethene	56.1	112	ug/L	69-159	
Carbon Disulfide	ND	NA	ug/L		
Methylene Chloride	54.4	109	ug/L	74-135	
Methyl-t-butyl ether	ND	NA	ug/L		
trans-1,2-Dichloroethene	55.4	111	ug/L	70-138	
1,1-Dichloroethane	57.4	115	ug/L	67-144	
2-Butanone	ND	NA	ug/L		
cis-1,2-Dichloroethene	ND	NA	ug/L		
Bromochloromethane	ND	NA	ug/L		
Chloroform	52.7	105	ug/L	80-132	
Tetrahydrofuran	ND	NA	ug/L		
1,1,1-Trichloroethane	53.8	108	ug/L	80-130	
1,1-Dichloropropene	ND	NA	ug/L		
Carbon Tetrachloride	54.0	108	ug/L	80-137	
Benzene	53.8	108	ug/L	73-130	
1,2-Dichloroethane	52.7	105	ug/L	75-130	
Trichloroethene	49.8	99.6	ug/L	79-129	
1,2-Dichloropropane	50.9	102	ug/L	80-120	
Dibromomethane	ND	NA	ug/L		
Bromodichloromethane	46.9	93.8	ug/L	78-125	
cis-1,3-Dichloropropene	52.2	104	ug/L	78-120	
4-Methyl-2-pentanone	ND	NA	ug/L		
Toluene	50.1	100	ug/L	77-123	
2-Hexanone	ND	NA	ug/L		
trans-1,3-Dichloropropene	54.3	109	ug/L	79-123	
1,1,2-Trichloroethane	49.0	98.0	ug/L		
1,3-Dichloropropane	ND	NA	ug/L		
Tetrachloroethene	48.2	96.4	ug/L	80-124	
Dibromochloromethane	48.6	97.2	ug/L	80-120	
1,2-Dibromoethane	ND	NA	ug/L		
Chlorobenzene	49.4	98.8	ug/L	80-124	
1,1,1,2-Tetrachloroethane	ND	NA	ug/L		
Ethylbenzene	52.1	104	ug/L	74-123	
Total Xylene	ND	NA	ug/L		
Styrene	ND	NA	ug/L		
Isopropylbenzene	ND	NA	ug/L		
Bromoform	49.4	98.8	ug/L	59-125	

ChemSolutions LLC
Laboratory Control Sample Results
Project ID: LTE1139

Sample ID: LCS
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C Date Analyzed: 7/13/18

ANALYTE	LCS SPIKE	% RECOVERY	UNITS	QC Limits	Qualifier
n-Propylbenzene	ND	NA	ug/L		
Bromobenzene	ND	NA	ug/L		
1,2,3-Trichloropropane	ND	NA	ug/L		
2-Chlorotoluene	ND	NA	ug/L		
4-Chlorotoluene	ND	NA	ug/L		
1,3,5-Trimethylbenzene	ND	NA	ug/L		
t-Butylbenzene	ND	NA	ug/L		
1,2,4-Trimethylbenzene	ND	NA	ug/L		
sec-Butylbenzene	ND	NA	ug/L		
p-Isopropyltoluene	ND	NA	ug/L		
1,1,2,2-Tetrachloroethane	49.8	99.6	ug/L	80-123	
1,3-Dichlorobenzene	48.5	97.0	ug/L	80-120	
1,4-Dichlorobenzene	47.9	95.8	ug/L	80-120	
n-Butylbenzene	ND	NA	ug/L		
1,2 Dichlorobenzene	47.6	95.2	ug/L	80-120	
1,2-Dibromo-3-chloropropane	ND	NA	ug/L		
1,2,4-Trichlorobenzene	ND	NA	ug/L		
Hexachlorobutadiene	ND	NA	ug/L		
Naphthalene	ND	NA	ug/L		
1,2,3-Trichlorobenzene	ND	NA	ug/L		

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	107	8260C	64-150
1,2-Dichloroethane-D4	107	8260C	60-150
Toluene-D8	98.7	8260C	80-120
Bromofluorobenzene	97.7	8260C	63-135

ND=Not detected at or above the reporting limit.
NA=Not available or Not analyzed.

ChemSolutions LLC
Laboratory Control Sample Results
Project ID: LTE1139

Sample ID: LCS
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C Date Analyzed: 7/16/18

ANALYTE	LCS SPIKE	% RECOVERY	UNITS	QC Limits	Qualifier
Dichlorodifluoromethane	ND	NA	ug/L		
Chloromethane	ND	NA	ug/L		
Vinyl Chloride	ND	NA	ug/L		
Bromomethane	ND	NA	ug/L		
Chloroethane	ND	NA	ug/L		
Trichlorofluoromethane	ND	NA	ug/L		
Acetone	ND	NA	ug/L		
1,1-Dichloroethene	58.8	118	ug/L	69-159	
Carbon Disulfide	ND	NA	ug/L		
Methylene Chloride	54.7	109	ug/L	74-135	
Methyl-t-butyl ether	ND	NA	ug/L		
trans-1,2-Dichloroethene	55.8	112	ug/L	70-138	
1,1-Dichloroethane	56.7	113	ug/L	67-144	
2-Butanone	ND	NA	ug/L		
cis-1,2-Dichloroethene	ND	NA	ug/L		
Bromochloromethane	ND	NA	ug/L		
Chloroform	53.8	108	ug/L	80-132	
Tetrahydrofuran	ND	NA	ug/L		
1,1,1-Trichloroethane	55.3	111	ug/L	80-130	
1,1-Dichloropropene	ND	NA	ug/L		
Carbon Tetrachloride	57.9	116	ug/L	80-137	
Benzene	52.8	106	ug/L	73-130	
1,2-Dichloroethane	54.4	109	ug/L	75-130	
Trichloroethene	51.0	102	ug/L	79-129	
1,2-Dichloropropane	49.2	98.4	ug/L	80-120	
Dibromomethane	ND	NA	ug/L		
Bromodichloromethane	48.1	96.2	ug/L	78-125	
cis-1,3-Dichloropropene	53.9	108	ug/L	78-120	
4-Methyl-2-pentanone	ND	NA	ug/L		
Toluene	50.0	100	ug/L	77-123	
2-Hexanone	ND	NA	ug/L		
trans-1,3-Dichloropropene	55.7	111	ug/L	79-123	
1,1,2-Trichloroethane	49.5	99.0	ug/L		
1,3-Dichloropropane	ND	NA	ug/L		
Tetrachloroethene	46.8	93.6	ug/L	80-124	
Dibromochloromethane	47.6	95.2	ug/L	80-120	
1,2-Dibromoethane	ND	NA	ug/L		
Chlorobenzene	47.1	94.2	ug/L	80-124	
1,1,1,2-Tetrachloroethane	ND	NA	ug/L		
Ethylbenzene	49.0	98.0	ug/L	74-123	
Total Xylene	ND	NA	ug/L		
Styrene	ND	NA	ug/L		
Isopropylbenzene	ND	NA	ug/L		
Bromoform	47.1	94.2	ug/L	59-125	

ChemSolutions LLC
Laboratory Control Sample Results
Project ID: LTE1139

Sample ID: LCS
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C Date Analyzed: 7/16/18

ANALYTE	LCS SPIKE	% RECOVERY	UNITS	QC Limits	Qualifier
n-Propylbenzene	ND	NA	ug/L		
Bromobenzene	ND	NA	ug/L		
1,2,3-Trichloropropane	ND	NA	ug/L		
2-Chlorotoluene	ND	NA	ug/L		
4-Chlorotoluene	ND	NA	ug/L		
1,3,5-Trimethylbenzene	ND	NA	ug/L		
t-Butylbenzene	ND	NA	ug/L		
1,2,4-Trimethylbenzene	ND	NA	ug/L		
sec-Butylbenzene	ND	NA	ug/L		
p-Isopropyltoluene	ND	NA	ug/L		
1,1,2,2-Tetrachloroethane	46.4	92.8	ug/L	80-123	
1,3-Dichlorobenzene	45.0	90.0	ug/L	80-120	
1,4-Dichlorobenzene	45.1	90.2	ug/L	80-120	
n-Butylbenzene	ND	NA	ug/L		
1,2 Dichlorobenzene	44.8	89.6	ug/L	80-120	
1,2-Dibromo-3-chloropropane	ND	NA	ug/L		
1,2,4-Trichlorobenzene	ND	NA	ug/L		
Hexachlorobutadiene	ND	NA	ug/L		
Naphthalene	ND	NA	ug/L		
1,2,3-Trichlorobenzene	ND	NA	ug/L		

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	111	8260C	64-150
1,2-Dichloroethane-D4	114	8260C	60-150
Toluene-D8	103	8260C	80-120
Bromofluorobenzene	98.1	8260C	63-135

ND=Not detected at or above the reporting limit.
NA=Not available or Not analyzed.

ChemSolutions LLC
Matrix Spike Results
Project ID: LTE1139

Client Sample ID: MWCM01
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C Date Analyzed: 7/13/18

ANALYTE	MATRIX SPIKE	% RECOVERY	UNITS	QC Limits	Qualifier
Dichlorodifluoromethane	ND	NA	ug/L		
Chloromethane	ND	NA	ug/L		
Vinyl Chloride	ND	NA	ug/L		
Bromomethane	ND	NA	ug/L		
Chloroethane	ND	NA	ug/L		
Trichlorofluoromethane	ND	NA	ug/L		
Acetone	ND	NA	ug/L		
1,1-Dichloroethene	58.7	117	ug/L	74-156	
Carbon Disulfide	ND	NA	ug/L		
Methylene Chloride	53.3	107	ug/L	80-139	
Methyl-t-butyl ether	ND	NA	ug/L		
trans-1,2-Dichloroethene	55.1	110	ug/L	80-148	
1,1-Dichloroethane	57.1	114	ug/L	76-145	
2-Butanone	ND	NA	ug/L		
cis-1,2-Dichloroethene	ND	NA	ug/L		
Bromochloromethane	ND	NA	ug/L		
Chloroform	53.2	106	ug/L	80-141	
Tetrahydrofuran	ND	NA	ug/L		
1,1,1-Trichloroethane	55.4	111	ug/L	80-141	
1,1-Dichloropropene	ND	NA	ug/L		
Carbon Tetrachloride	56.7	113	ug/L	80-142	
Benzene	52.5	105	ug/L	72/140	
1,2-Dichloroethane	53.8	108	ug/L	73-145	
Trichloroethene	66.4	94.7	ug/L	77-138	
1,2-Dichloropropane	49.3	98.6	ug/L	80-124	
Dibromomethane	ND	NA	ug/L		
Bromodichloromethane	46.1	92.2	ug/L	75-125	
cis-1,3-Dichloropropene	50.5	101	ug/L	80-124	
4-Methyl-2-pentanone	ND	NA	ug/L		
Toluene	49.8	99.6	ug/L	79-131	
2-Hexanone	ND	NA	ug/L		
trans-1,3-Dichloropropene	54.2	108	ug/L	80-131	
1,1,2-Trichloroethane	48.1	96.2	ug/L		
1,3-Dichloropropane	ND	NA	ug/L		
Tetrachloroethene	50.7	101	ug/L	80-124	
Dibromochloromethane	47.6	95.2	ug/L	80-123	
1,2-Dibromoethane	ND	NA	ug/L		
Chlorobenzene	48.3	96.6	ug/L	80-131	
1,1,1,2-Tetrachloroethane	ND	NA	ug/L		
Ethylbenzene	50.5	101	ug/L	80-126	
Total Xylene	ND	NA	ug/L		
Styrene	ND	NA	ug/L		
Isopropylbenzene	ND	NA	ug/L		
Bromoform	46.4	92.8	ug/L	62-124	

ChemSolutions LLC
Matrix Spike Results
Project ID: LTE1139

Client Sample ID: MWCM01
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C Date Analyzed: 7/13/18

ANALYTE	MATRIX SPIKE	% RECOVERY	UNITS	QC Limits	Qualifier
n-Propylbenzene	ND	NA	ug/L		
Bromobenzene	ND	NA	ug/L		
1,2,3-Trichloropropane	ND	NA	ug/L		
2-Chlorotoluene	ND	NA	ug/L		
4-Chlorotoluene	ND	NA	ug/L		
1,3,5-Trimethylbenzene	ND	NA	ug/L		
t-Butylbenzene	ND	NA	ug/L		
1,2,4-Trimethylbenzene	ND	NA	ug/L		
sec-Butylbenzene	ND	NA	ug/L		
p-Isopropyltoluene	ND	NA	ug/L		
1,1,2,2-Tetrachloroethane	49.2	98.4	ug/L	76-140	
1,3-Dichlorobenzene	46.1	92.2	ug/L	80-120	
1,4-Dichlorobenzene	47.6	95.2	ug/L	80-120	
n-Butylbenzene	ND	NA	ug/L		
1,2 Dichlorobenzene	45.6	91.2	ug/L	80-120	
1,2-Dibromo-3-chloropropane	ND	NA	ug/L		
1,2,4-Trichlorobenzene	ND	NA	ug/L		
Hexachlorobutadiene	ND	NA	ug/L		
Naphthalene	ND	NA	ug/L		
1,2,3-Trichlorobenzene	ND	NA	ug/L		

Surrogate	% Recovery	Surrogate QC Limits	
Dibromofluoromethane	113	8260C	76-141
1,2-Dichloroethane-D4	113	8260C	80-142
Toluene-D8	103	8260C	80-120
Bromofluorobenzene	96.4	8260C	80-128

ND=Not detected at or above the reporting limit.
NA=Not available or Not analyzed.

ChemSolutions LLC
Matrix Spike Results
Project ID: LTE1139

Client Sample ID: MWCM01
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C	MATRIX SPIKE		Date Analyzed: 7/13/18				
ANALYTE	DUPLICATE	% RECOVERY	UNITS	RPD	QC Limits	RPD Limit	Qualifier
Dichlorodifluoromethane	ND	NA	ug/L				
Chloromethane	ND	NA	ug/L				
Vinyl Chloride	ND	NA	ug/L				
Bromomethane	ND	NA	ug/L				
Chloroethane	ND	NA	ug/L				
Trichlorofluoromethane	ND	NA	ug/L				
Acetone	ND	NA	ug/L				
1,1-Dichloroethene	61.8	124	ug/L	5.1	74-156	20	
Carbon Disulfide	ND	NA	ug/L				
Methylene Chloride	58.1	116	ug/L	8.6	80-139	20	
Methyl-t-butyl ether	ND	NA	ug/L				
trans-1,2-Dichloroethene	58.3	117	ug/L	5.6	80-148	20	
1,1-Dichloroethane	61.7	123	ug/L	7.7	76-145	20	
2-Butanone	ND	NA	ug/L				
cis-1,2-Dichloroethene	ND	NA	ug/L				
Bromochloromethane	ND	NA	ug/L				
Chloroform	57.9	116	ug/L	8.5	80-141	20	
Tetrahydrofuran	ND	NA	ug/L				
1,1,1-Trichloroethane	57.5	115	ug/L	3.7	80-141	20	
1,1-Dichloropropene	ND	NA	ug/L				
Carbon Tetrachloride	58.6	117	ug/L	3.3	80-142	20	
Benzene	57.1	114	ug/L	8.4	72/140	20	
1,2-Dichloroethane	57.2	114	ug/L	6.1	73-145	20	
Trichloroethene	70.1	102	ug/L	5.4	77-138	20	
1,2-Dichloropropane	52.4	105	ug/L	6.1	80-124	20	
Dibromomethane	ND	NA	ug/L				
Bromodichloromethane	48.8	97.6	ug/L	5.7	75-125	20	
cis-1,3-Dichloropropene	53.3	107	ug/L	5.4	80-124	20	
4-Methyl-2-pentanone	ND	NA	ug/L				
Toluene	51.7	103	ug/L	3.7	79-131	20	
2-Hexanone	ND	NA	ug/L				
trans-1,3-Dichloropropene	56.2	112	ug/L	3.6	80-131	20	
1,1,2-Trichloroethane	51.6	103	ug/L	7.0			
1,3-Dichloropropane	ND	NA	ug/L				
Tetrachloroethene	52.8	106	ug/L	4.1	80-124	20	
Dibromochloromethane	51.1	102	ug/L	7.1	80-123	20	
1,2-Dibromoethane	ND	NA	ug/L				
Chlorobenzene	51.5	103	ug/L	6.4	80-131	20	
1,1,1,2-Tetrachloroethane	ND	NA	ug/L				
Ethylbenzene	54.4	109	ug/L	7.4	80-126	20	
Total Xylene	ND	NA	ug/L				
Styrene	ND	NA	ug/L				
Isopropylbenzene	ND	NA	ug/L				
Bromoform	50.8	102	ug/L	9.1	62-124	20	

ChemSolutions LLC
Matrix Spike Results
Project ID: LTE1139

Client Sample ID: MWCM01
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C MATRIX SPIKE Date Analyzed: 7/13/18

ANALYTE	DUPLICATE	% RECOVERY	UNITS	RPD	QC Limits	RPD Limit	Qualifier
n-Propylbenzene	ND	NA	ug/L				
Bromobenzene	ND	NA	ug/L				
1,2,3-Trichloropropane	ND	NA	ug/L				
2-Chlorotoluene	ND	NA	ug/L				
4-Chlorotoluene	ND	NA	ug/L				
1,3,5-Trimethylbenzene	ND	NA	ug/L				
t-Butylbenzene	ND	NA	ug/L				
1,2,4-Trimethylbenzene	ND	NA	ug/L				
sec-Butylbenzene	ND	NA	ug/L				
p-Isopropyltoluene	ND	NA	ug/L				
1,1,2,2-Tetrachloroethane	52.8	106	ug/L	7.1	76-140	20	
1,3-Dichlorobenzene	49.2	98.4	ug/L	6.5	80-120	20	
1,4-Dichlorobenzene	50.8	102	ug/L	6.5	80-120	20	
n-Butylbenzene	ND	NA	ug/L				
1,2 Dichlorobenzene	49.7	99.4	ug/L	8.6	80-120	20	
1,2-Dibromo-3-chloropropane	ND	NA	ug/L				
1,2,4-Trichlorobenzene	ND	NA	ug/L				
Hexachlorobutadiene	ND	NA	ug/L				
Naphthalene	ND	NA	ug/L				
1,2,3-Trichlorobenzene	ND	NA	ug/L				

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	112	8260C	76-141
1,2-Dichloroethane-D4	113	8260C	80-142
Toluene-D8	101	8260C	80-120
Bromofluorobenzene	97.6	8260C	80-128

ND=Not detected at or above the reporting limit.
NA=Not available or Not analyzed.

ChemSolutions LLC
Matrix Spike Results
Project ID: LTE1139

Client Sample ID: IRAMW18
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C Date Analyzed: 7/16/18

ANALYTE	MATRIX SPIKE	% RECOVERY	UNITS	QC Limits	Qualifier
Dichlorodifluoromethane	ND	NA	ug/L		
Chloromethane	ND	NA	ug/L		
Vinyl Chloride	ND	NA	ug/L		
Bromomethane	ND	NA	ug/L		
Chloroethane	ND	NA	ug/L		
Trichlorofluoromethane	ND	NA	ug/L		
Acetone	ND	NA	ug/L		
1,1-Dichloroethene	60.9	122	ug/L	74-156	
Carbon Disulfide	ND	NA	ug/L		
Methylene Chloride	65.9	132	ug/L	80-139	
Methyl-t-butyl ether	ND	NA	ug/L		
trans-1,2-Dichloroethene	65.9	132	ug/L	80-148	
1,1-Dichloroethane	63.6	127	ug/L	76-145	
2-Butanone	ND	NA	ug/L		
cis-1,2-Dichloroethene	ND	NA	ug/L		
Bromochloromethane	ND	NA	ug/L		
Chloroform	68.0	136	ug/L	80-141	
Tetrahydrofuran	ND	NA	ug/L		
1,1,1-Trichloroethane	64.1	128	ug/L	80-141	
1,1-Dichloropropene	ND	NA	ug/L		
Carbon Tetrachloride	66.0	132	ug/L	80-142	
Benzene	66.0	132	ug/L	72/140	
1,2-Dichloroethane	64.5	129	ug/L	73-145	
Trichloroethene	61.2	114	ug/L	77-138	
1,2-Dichloropropane	55.4	111	ug/L	80-124	
Dibromomethane	ND	NA	ug/L		
Bromodichloromethane	54.1	108	ug/L	75-125	
cis-1,3-Dichloropropene	56.1	112	ug/L	80-124	
4-Methyl-2-pentanone	ND	NA	ug/L		
Toluene	56.0	112	ug/L	79-131	
2-Hexanone	ND	NA	ug/L		
trans-1,3-Dichloropropene	60.5	121	ug/L	80-131	
1,1,2-Trichloroethane	56.2	112	ug/L		
1,3-Dichloropropane	ND	NA	ug/L		
Tetrachloroethene	49.6	99.2	ug/L	80-124	
Dibromochloromethane	52.6	105	ug/L	80-123	
1,2-Dibromoethane	ND	NA	ug/L		
Chlorobenzene	52.0	104	ug/L	80-131	
1,1,1,2-Tetrachloroethane	ND	NA	ug/L		
Ethylbenzene	55.7	111	ug/L	80-126	
Total Xylene	ND	NA	ug/L		
Styrene	ND	NA	ug/L		
Isopropylbenzene	ND	NA	ug/L		
Bromoform	53.4	107	ug/L	62-124	

ChemSolutions LLC
Matrix Spike Results
Project ID: LTE1139

Client Sample ID: IRAMW18
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C Date Analyzed: 7/16/18

ANALYTE	MATRIX SPIKE	% RECOVERY	UNITS	QC Limits	Qualifier
n-Propylbenzene	ND	NA	ug/L		
Bromobenzene	ND	NA	ug/L		
1,2,3-Trichloropropane	ND	NA	ug/L		
2-Chlorotoluene	ND	NA	ug/L		
4-Chlorotoluene	ND	NA	ug/L		
1,3,5-Trimethylbenzene	ND	NA	ug/L		
t-Butylbenzene	ND	NA	ug/L		
1,2,4-Trimethylbenzene	ND	NA	ug/L		
sec-Butylbenzene	ND	NA	ug/L		
p-Isopropyltoluene	ND	NA	ug/L		
1,1,2,2-Tetrachloroethane	52.4	105	ug/L	76-140	
1,3-Dichlorobenzene	47.6	95.2	ug/L	80-120	
1,4-Dichlorobenzene	51.1	102	ug/L	80-120	
n-Butylbenzene	ND	NA	ug/L		
1,2 Dichlorobenzene	49.2	98.4	ug/L	80-120	
1,2-Dibromo-3-chloropropane	ND	NA	ug/L		
1,2,4-Trichlorobenzene	ND	NA	ug/L		
Hexachlorobutadiene	ND	NA	ug/L		
Naphthalene	ND	NA	ug/L		
1,2,3-Trichlorobenzene	ND	NA	ug/L		

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	128	8260C	76-141
1,2-Dichloroethane-D4	129	8260C	80-142
Toluene-D8	104	8260C	80-120
Bromofluorobenzene	99.5	8260C	80-128

ND=Not detected at or above the reporting limit.
NA=Not available or Not analyzed.

ChemSolutions LLC
Matrix Spike Results
Project ID: LTE1139

Client Sample ID: IRAMW18
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C	MATRIX SPIKE		Date Analyzed: 7/16/18				
ANALYTE	DUPLICATE	% RECOVERY	UNITS	RPD	QC Limits	RPD Limit	Qualifier
Dichlorodifluoromethane	ND	NA	ug/L				
Chloromethane	ND	NA	ug/L				
Vinyl Chloride	ND	NA	ug/L				
Bromomethane	ND	NA	ug/L				
Chloroethane	ND	NA	ug/L				
Trichlorofluoromethane	ND	NA	ug/L				
Acetone	ND	NA	ug/L				
1,1-Dichloroethene	66.5	133	ug/L	8.8	74-156	20	
Carbon Disulfide	ND	NA	ug/L				
Methylene Chloride	56.2	112	ug/L	15.9	80-139	20	
Methyl-t-butyl ether	ND	NA	ug/L				
trans-1,2-Dichloroethene	57.4	115	ug/L	13.8	80-148	20	
1,1-Dichloroethane	62.6	125	ug/L	1.6	76-145	20	
2-Butanone	ND	NA	ug/L				
cis-1,2-Dichloroethene	ND	NA	ug/L				
Bromochloromethane	ND	NA	ug/L				
Chloroform	59.6	119	ug/L	13.2	80-141	20	
Tetrahydrofuran	ND	NA	ug/L				
1,1,1-Trichloroethane	63.5	127	ug/L	0.9	80-141	20	
1,1-Dichloropropene	ND	NA	ug/L				
Carbon Tetrachloride	64.4	129	ug/L	2.5	80-142	20	
Benzene	58.1	116	ug/L	12.7	72/140	20	
1,2-Dichloroethane	61.9	124	ug/L	4.1	73-145	20	
Trichloroethene	57.8	107	ug/L	5.7	77-138	20	
1,2-Dichloropropane	50.2	100	ug/L	9.8	80-124	20	
Dibromomethane	ND	NA	ug/L				
Bromodichloromethane	49.7	99.4	ug/L	8.5	75-125	20	
cis-1,3-Dichloropropene	49.6	99.2	ug/L	12.3	80-124	20	
4-Methyl-2-pentanone	ND	NA	ug/L				
Toluene	51.7	103	ug/L	8.0	79-131	20	
2-Hexanone	ND	NA	ug/L				
trans-1,3-Dichloropropene	54.2	108	ug/L	11.0	80-131	20	
1,1,2-Trichloroethane	50.9	102	ug/L	9.9			
1,3-Dichloropropane	ND	NA	ug/L				
Tetrachloroethene	46.2	92.4	ug/L	7.1	80-124	20	
Dibromochloromethane	47.0	94.0	ug/L	11.2	80-123	20	
1,2-Dibromoethane	ND	NA	ug/L				
Chlorobenzene	47.2	94.4	ug/L	9.7	80-131	20	
1,1,1,2-Tetrachloroethane	ND	NA	ug/L				
Ethylbenzene	50.9	102	ug/L	9.0	80-126	20	
Total Xylene	ND	NA	ug/L				
Styrene	ND	NA	ug/L				
Isopropylbenzene	ND	NA	ug/L				
Bromoform	46.4	92.8	ug/L	14.0	62-124	20	

ChemSolutions LLC
Matrix Spike Results
Project ID: LTE1139

Client Sample ID: IRAMW18
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C MATRIX SPIKE Date Analyzed: 7/16/18

ANALYTE	DUPLICATE	% RECOVERY	UNITS	RPD	QC Limits	RPD Limit	Qualifier
n-Propylbenzene	ND	NA	ug/L				
Bromobenzene	ND	NA	ug/L				
1,2,3-Trichloropropane	ND	NA	ug/L				
2-Chlorotoluene	ND	NA	ug/L				
4-Chlorotoluene	ND	NA	ug/L				
1,3,5-Trimethylbenzene	ND	NA	ug/L				
t-Butylbenzene	ND	NA	ug/L				
1,2,4-Trimethylbenzene	ND	NA	ug/L				
sec-Butylbenzene	ND	NA	ug/L				
p-Isopropyltoluene	ND	NA	ug/L				
1,1,2,2-Tetrachloroethane	47.2	94.4	ug/L	10.4	76-140	20	
1,3-Dichlorobenzene	43.0	86.0	ug/L	10.2	80-120	20	
1,4-Dichlorobenzene	44.0	88.0	ug/L	14.9	80-120	20	
n-Butylbenzene	ND	NA	ug/L				
1,2 Dichlorobenzene	42.3	84.6	ug/L	15.1	80-120	20	
1,2-Dibromo-3-chloropropane	ND	NA	ug/L				
1,2,4-Trichlorobenzene	ND	NA	ug/L				
Hexachlorobutadiene	ND	NA	ug/L				
Naphthalene	ND	NA	ug/L				
1,2,3-Trichlorobenzene	ND	NA	ug/L				

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	112	8260C	76-141
1,2-Dichloroethane-D4	113	8260C	80-142
Toluene-D8	101	8260C	80-120
Bromofluorobenzene	97.6	8260C	80-128

ND=Not detected at or above the reporting limit.
NA=Not available or Not analyzed.

ChemSolutions

7388 S. Revere Parkway, Suite 805
Centennial, CO 80112
303.771.5570

July 17, 2018

Chris Purcell
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003

RE: LTE1140

Dear Chris,

Enclosed please find the analytical results for the Project #LAC OU5 water sample collected on 7/9/18.

Thank you for the opportunity to work on this project. Please call if you have any questions. The invoice will be sent separately.

Sincerely,

John Graves
Laboratory Director
ChemSolutions LLC

ChemSolutions LLC
Sample Results
Project ID: LTE1140

Client Sample ID: MWMF02D
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/9/18
Date Received: 7/10/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	100	ug/L	20	7/16/2018	8260C	
Chloromethane	ND	100	ug/L	20	7/16/2018	8260C	
Vinyl Chloride	ND	40	ug/L	20	7/16/2018	8260C	
Bromomethane	ND	100	ug/L	20	7/16/2018	8260C	
Chloroethane	ND	100	ug/L	20	7/16/2018	8260C	
Trichlorofluoromethane	ND	100	ug/L	20	7/16/2018	8260C	
Acetone	ND	400	ug/L	20	7/16/2018	8260C	
1,1-Dichloroethene	9700	200	ug/L	100	7/16/2018	8260C	
Carbon Disulfide	ND	100	ug/L	20	7/16/2018	8260C	
Methylene Chloride	4400	500	ug/L	100	7/16/2018	8260C	
Methyl-t-butyl ether	ND	100	ug/L	20	7/16/2018	8260C	
trans-1,2-Dichloroethene	74	40	ug/L	20	7/16/2018	8260C	
1,1-Dichloroethane	1300	40	ug/L	20	7/16/2018	8260C	
2-Butanone	ND	200	ug/L	20	7/16/2018	8260C	
cis-1,2-Dichloroethene	620	40	ug/L	20	7/16/2018	8260C	
Bromochloromethane	ND	100	ug/L	20	7/16/2018	8260C	
Chloroform	140	100	ug/L	20	7/16/2018	8260C	
Tetrahydrofuran	ND	200	ug/L	20	7/16/2018	8260C	
1,1,1-Trichloroethane	5400	200	ug/L	100	7/16/2018	8260C	
1,1-Dichloropropene	ND	100	ug/L	20	7/16/2018	8260C	
Carbon Tetrachloride	ND	40	ug/L	20	7/16/2018	8260C	
Benzene	ND	40	ug/L	20	7/16/2018	8260C	
1,2-Dichloroethane	91	40	ug/L	20	7/16/2018	8260C	
Trichloroethene	22000	200	ug/L	100	7/16/2018	8260C	
1,2-Dichloropropane	ND	100	ug/L	20	7/16/2018	8260C	
Dibromomethane	ND	100	ug/L	20	7/16/2018	8260C	
Bromodichloromethane	ND	100	ug/L	20	7/16/2018	8260C	
cis-1,3-Dichloropropene	ND	100	ug/L	20	7/16/2018	8260C	
4-Methyl-2-pentanone	ND	200	ug/L	20	7/16/2018	8260C	
Toluene	ND	100	ug/L	20	7/16/2018	8260C	
2-Hexanone	ND	200	ug/L	20	7/16/2018	8260C	
trans-1,3-Dichloropropene	ND	100	ug/L	20	7/16/2018	8260C	
1,1,2-Trichloroethane	200	40	ug/L	20	7/16/2018	8260C	
1,3-Dichloropropane	ND	100	ug/L	20	7/16/2018	8260C	
Tetrachloroethene	ND	40	ug/L	20	7/16/2018	8260C	
Dibromochloromethane	ND	100	ug/L	20	7/16/2018	8260C	
1,2-Dibromoethane	ND	100	ug/L	20	7/16/2018	8260C	
Chlorobenzene	ND	40	ug/L	20	7/16/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	100	ug/L	20	7/16/2018	8260C	
Ethylbenzene	ND	100	ug/L	20	7/16/2018	8260C	
Total Xylene	ND	100	ug/L	20	7/16/2018	8260C	
Styrene	ND	100	ug/L	20	7/16/2018	8260C	
Isopropylbenzene	ND	100	ug/L	20	7/16/2018	8260C	
Bromoform	ND	100	ug/L	20	7/16/2018	8260C	

ChemSolutions LLC
Sample Results
Project ID: LTE1140

Client Sample ID: MWMF02D
Client Project ID: LAC OU5
Sample Matrix: Water

Date Sampled: 7/9/18
Date Received: 7/10/18

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	100	ug/L	20	7/16/2018	8260C	
Bromobenzene	ND	100	ug/L	20	7/16/2018	8260C	
1,2,3-Trichloropropane	ND	100	ug/L	20	7/16/2018	8260C	
2-Chlorotoluene	ND	100	ug/L	20	7/16/2018	8260C	
4-Chlorotoluene	ND	100	ug/L	20	7/16/2018	8260C	
1,3,5-Trimethylbenzene	ND	100	ug/L	20	7/16/2018	8260C	
t-Butylbenzene	ND	100	ug/L	20	7/16/2018	8260C	
1,2,4-Trimethylbenzene	ND	100	ug/L	20	7/16/2018	8260C	
sec-Butylbenzene	ND	100	ug/L	20	7/16/2018	8260C	
p-Isopropyltoluene	ND	100	ug/L	20	7/16/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	100	ug/L	20	7/16/2018	8260C	
1,3-Dichlorobenzene	ND	100	ug/L	20	7/16/2018	8260C	
1,4-Dichlorobenzene	ND	100	ug/L	20	7/16/2018	8260C	
n-Butylbenzene	ND	100	ug/L	20	7/16/2018	8260C	
1,2 Dichlorobenzene	ND	100	ug/L	20	7/16/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	100	ug/L	20	7/16/2018	8260C	
1,2,4-Trichlorobenzene	ND	100	ug/L	20	7/16/2018	8260C	
Hexachlorobutadiene	ND	100	ug/L	20	7/16/2018	8260C	
Naphthalene	ND	100	ug/L	20	7/16/2018	8260C	
1,2,3-Trichlorobenzene	ND	100	ug/L	20	7/16/2018	8260C	

Surrogate	% Recovery			Surrogate QC Limits
Dibromofluoromethane	112	8260C	20x	64-150
1,2-Dichloroethane-D4	121	8260C	20x	60-150
Toluene-D8	105	8260C	20x	80-120
Bromofluorobenzene	92.6	8260C	20x	63-135
Dibromofluoromethane	129	8260C	100x	64-150
1,2-Dichloroethane-D4	128	8260C	100x	60-150
Toluene-D8	102	8260C	100x	80-120
Bromofluorobenzene	88.1	8260C	100x	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Method Blank Results
Project ID: LTE1140

Sample ID: Blank
Client Project ID: LAC OU5
Sample Matrix: Water

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
Dichlorodifluoromethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloromethane	ND	5	ug/L	1	7/16/2018	8260C	
Vinyl Chloride	ND	2	ug/L	1	7/16/2018	8260C	
Bromomethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloroethane	ND	5	ug/L	1	7/16/2018	8260C	
Trichlorofluoromethane	ND	5	ug/L	1	7/16/2018	8260C	
Acetone	ND	20	ug/L	1	7/16/2018	8260C	
1,1-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Carbon Disulfide	ND	5	ug/L	1	7/16/2018	8260C	
Methylene Chloride	ND	5	ug/L	1	7/16/2018	8260C	
Methyl-t-butyl ether	ND	5	ug/L	1	7/16/2018	8260C	
trans-1,2-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
1,1-Dichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
2-Butanone	ND	10	ug/L	1	7/16/2018	8260C	
cis-1,2-Dichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Bromochloromethane	ND	5	ug/L	1	7/16/2018	8260C	
Chloroform	ND	5	ug/L	1	7/16/2018	8260C	
Tetrahydrofuran	ND	10	ug/L	1	7/16/2018	8260C	
1,1,1-Trichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
1,1-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
Carbon Tetrachloride	ND	2	ug/L	1	7/16/2018	8260C	
Benzene	ND	2	ug/L	1	7/16/2018	8260C	
1,2-Dichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
Trichloroethene	ND	2	ug/L	1	7/16/2018	8260C	
1,2-Dichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
Dibromomethane	ND	5	ug/L	1	7/16/2018	8260C	
Bromodichloromethane	ND	5	ug/L	1	7/16/2018	8260C	
cis-1,3-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
4-Methyl-2-pentanone	ND	10	ug/L	1	7/16/2018	8260C	
Toluene	ND	5	ug/L	1	7/16/2018	8260C	
2-Hexanone	ND	10	ug/L	1	7/16/2018	8260C	
trans-1,3-Dichloropropene	ND	5	ug/L	1	7/16/2018	8260C	
1,1,2-Trichloroethane	ND	2	ug/L	1	7/16/2018	8260C	
1,3-Dichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
Tetrachloroethene	ND	2	ug/L	1	7/16/2018	8260C	
Dibromochloromethane	ND	5	ug/L	1	7/16/2018	8260C	
1,2-Dibromoethane	ND	5	ug/L	1	7/16/2018	8260C	
Chlorobenzene	ND	2	ug/L	1	7/16/2018	8260C	
1,1,1,2-Tetrachloroethane	ND	5	ug/L	1	7/16/2018	8260C	
Ethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Total Xylene	ND	5	ug/L	1	7/16/2018	8260C	
Styrene	ND	5	ug/L	1	7/16/2018	8260C	
Isopropylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Bromoform	ND	5	ug/L	1	7/16/2018	8260C	

ChemSolutions LLC
Method Blank Results
Project ID: LTE1140

Sample ID: Blank
Client Project ID: LAC OU5
Sample Matrix: Water

ANALYTE	Concentration	Reporting Limit	Units	Dilution Factor	Date Analyzed	EPA Method	Qualifier
n-Propylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
Bromobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,3-Trichloropropane	ND	5	ug/L	1	7/16/2018	8260C	
2-Chlorotoluene	ND	5	ug/L	1	7/16/2018	8260C	
4-Chlorotoluene	ND	5	ug/L	1	7/16/2018	8260C	
1,3,5-Trimethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
t-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,4-Trimethylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
sec-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
p-Isopropyltoluene	ND	5	ug/L	1	7/16/2018	8260C	
1,1,2,2-Tetrachloroethane	ND	5	ug/L	1	7/16/2018	8260C	
1,3-Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,4-Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
n-Butylbenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2 Dichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
1,2-Dibromo-3-chloropropane	ND	5	ug/L	1	7/16/2018	8260C	
1,2,4-Trichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	
Hexachlorobutadiene	ND	5	ug/L	1	7/16/2018	8260C	
Naphthalene	ND	5	ug/L	1	7/16/2018	8260C	
1,2,3-Trichlorobenzene	ND	5	ug/L	1	7/16/2018	8260C	

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	118	8260C	64-150
1,2-Dichloroethane-D4	118	8260C	60-150
Toluene-D8	101	8260C	80-120
Bromofluorobenzene	90.2	8260C	63-135

ND = Not detected at or above the reporting limit.

ChemSolutions LLC
Laboratory Control Sample Results
Project ID: LTE1140

Sample ID: LCS
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C Date Analyzed: 7/16/18

ANALYTE	LCS SPIKE	% RECOVERY	UNITS	QC Limits	Qualifier
Dichlorodifluoromethane	ND	NA	ug/L		
Chloromethane	ND	NA	ug/L		
Vinyl Chloride	ND	NA	ug/L		
Bromomethane	ND	NA	ug/L		
Chloroethane	ND	NA	ug/L		
Trichlorofluoromethane	ND	NA	ug/L		
Acetone	ND	NA	ug/L		
1,1-Dichloroethene	58.8	118	ug/L	69-159	
Carbon Disulfide	ND	NA	ug/L		
Methylene Chloride	54.7	109	ug/L	74-135	
Methyl-t-butyl ether	ND	NA	ug/L		
trans-1,2-Dichloroethene	55.8	112	ug/L	70-138	
1,1-Dichloroethane	56.7	113	ug/L	67-144	
2-Butanone	ND	NA	ug/L		
cis-1,2-Dichloroethene	ND	NA	ug/L		
Bromochloromethane	ND	NA	ug/L		
Chloroform	53.8	108	ug/L	80-132	
Tetrahydrofuran	ND	NA	ug/L		
1,1,1-Trichloroethane	55.3	111	ug/L	80-130	
1,1-Dichloropropene	ND	NA	ug/L		
Carbon Tetrachloride	57.9	116	ug/L	80-137	
Benzene	52.8	106	ug/L	73-130	
1,2-Dichloroethane	54.4	109	ug/L	75-130	
Trichloroethene	51.0	102	ug/L	79-129	
1,2-Dichloropropane	49.2	98.4	ug/L	80-120	
Dibromomethane	ND	NA	ug/L		
Bromodichloromethane	48.1	96.2	ug/L	78-125	
cis-1,3-Dichloropropene	53.9	108	ug/L	78-120	
4-Methyl-2-pentanone	ND	NA	ug/L		
Toluene	50.0	100	ug/L	77-123	
2-Hexanone	ND	NA	ug/L		
trans-1,3-Dichloropropene	55.7	111	ug/L	79-123	
1,1,2-Trichloroethane	49.5	99.0	ug/L		
1,3-Dichloropropane	ND	NA	ug/L		
Tetrachloroethene	46.8	93.6	ug/L	80-124	
Dibromochloromethane	47.6	95.2	ug/L	80-120	
1,2-Dibromoethane	ND	NA	ug/L		
Chlorobenzene	47.1	94.2	ug/L	80-124	
1,1,1,2-Tetrachloroethane	ND	NA	ug/L		
Ethylbenzene	49.0	98.0	ug/L	74-123	
Total Xylene	ND	NA	ug/L		
Styrene	ND	NA	ug/L		
Isopropylbenzene	ND	NA	ug/L		
Bromoform	47.1	94.2	ug/L	59-125	

ChemSolutions LLC
Laboratory Control Sample Results
Project ID: LTE1140

Sample ID: LCS
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C Date Analyzed: 7/16/18

ANALYTE	LCS SPIKE	% RECOVERY	UNITS	QC Limits	Qualifier
n-Propylbenzene	ND	NA	ug/L		
Bromobenzene	ND	NA	ug/L		
1,2,3-Trichloropropane	ND	NA	ug/L		
2-Chlorotoluene	ND	NA	ug/L		
4-Chlorotoluene	ND	NA	ug/L		
1,3,5-Trimethylbenzene	ND	NA	ug/L		
t-Butylbenzene	ND	NA	ug/L		
1,2,4-Trimethylbenzene	ND	NA	ug/L		
sec-Butylbenzene	ND	NA	ug/L		
p-Isopropyltoluene	ND	NA	ug/L		
1,1,2,2-Tetrachloroethane	46.4	92.8	ug/L	80-123	
1,3-Dichlorobenzene	45.0	90.0	ug/L	80-120	
1,4-Dichlorobenzene	45.1	90.2	ug/L	80-120	
n-Butylbenzene	ND	NA	ug/L		
1,2 Dichlorobenzene	44.8	89.6	ug/L	80-120	
1,2-Dibromo-3-chloropropane	ND	NA	ug/L		
1,2,4-Trichlorobenzene	ND	NA	ug/L		
Hexachlorobutadiene	ND	NA	ug/L		
Naphthalene	ND	NA	ug/L		
1,2,3-Trichlorobenzene	ND	NA	ug/L		

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	111	8260C	64-150
1,2-Dichloroethane-D4	114	8260C	60-150
Toluene-D8	103	8260C	80-120
Bromofluorobenzene	98.1	8260C	63-135

ND=Not detected at or above the reporting limit.
NA=Not available or Not analyzed.

ChemSolutions LLC
Matrix Spike Results
Project ID: LTE1140

Client Sample ID: IRAMW18
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C Date Analyzed: 7/16/18

ANALYTE	MATRIX SPIKE	% RECOVERY	UNITS	QC Limits	Qualifier
Dichlorodifluoromethane	ND	NA	ug/L		
Chloromethane	ND	NA	ug/L		
Vinyl Chloride	ND	NA	ug/L		
Bromomethane	ND	NA	ug/L		
Chloroethane	ND	NA	ug/L		
Trichlorofluoromethane	ND	NA	ug/L		
Acetone	ND	NA	ug/L		
1,1-Dichloroethene	60.9	122	ug/L	74-156	
Carbon Disulfide	ND	NA	ug/L		
Methylene Chloride	65.9	132	ug/L	80-139	
Methyl-t-butyl ether	ND	NA	ug/L		
trans-1,2-Dichloroethene	65.9	132	ug/L	80-148	
1,1-Dichloroethane	63.6	127	ug/L	76-145	
2-Butanone	ND	NA	ug/L		
cis-1,2-Dichloroethene	ND	NA	ug/L		
Bromochloromethane	ND	NA	ug/L		
Chloroform	68.0	136	ug/L	80-141	
Tetrahydrofuran	ND	NA	ug/L		
1,1,1-Trichloroethane	64.1	128	ug/L	80-141	
1,1-Dichloropropene	ND	NA	ug/L		
Carbon Tetrachloride	66.0	132	ug/L	80-142	
Benzene	66.0	132	ug/L	72/140	
1,2-Dichloroethane	64.5	129	ug/L	73-145	
Trichloroethene	61.2	114	ug/L	77-138	
1,2-Dichloropropane	55.4	111	ug/L	80-124	
Dibromomethane	ND	NA	ug/L		
Bromodichloromethane	54.1	108	ug/L	75-125	
cis-1,3-Dichloropropene	56.1	112	ug/L	80-124	
4-Methyl-2-pentanone	ND	NA	ug/L		
Toluene	56.0	112	ug/L	79-131	
2-Hexanone	ND	NA	ug/L		
trans-1,3-Dichloropropene	60.5	121	ug/L	80-131	
1,1,2-Trichloroethane	56.2	112	ug/L		
1,3-Dichloropropane	ND	NA	ug/L		
Tetrachloroethene	49.6	99.2	ug/L	80-124	
Dibromochloromethane	52.6	105	ug/L	80-123	
1,2-Dibromoethane	ND	NA	ug/L		
Chlorobenzene	52.0	104	ug/L	80-131	
1,1,1,2-Tetrachloroethane	ND	NA	ug/L		
Ethylbenzene	55.7	111	ug/L	80-126	
Total Xylene	ND	NA	ug/L		
Styrene	ND	NA	ug/L		
Isopropylbenzene	ND	NA	ug/L		
Bromoform	53.4	107	ug/L	62-124	

ChemSolutions LLC
Matrix Spike Results
Project ID: LTE1140

Client Sample ID: IRAMW18
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C Date Analyzed: 7/16/18

ANALYTE	MATRIX SPIKE	% RECOVERY	UNITS	QC Limits	Qualifier
n-Propylbenzene	ND	NA	ug/L		
Bromobenzene	ND	NA	ug/L		
1,2,3-Trichloropropane	ND	NA	ug/L		
2-Chlorotoluene	ND	NA	ug/L		
4-Chlorotoluene	ND	NA	ug/L		
1,3,5-Trimethylbenzene	ND	NA	ug/L		
t-Butylbenzene	ND	NA	ug/L		
1,2,4-Trimethylbenzene	ND	NA	ug/L		
sec-Butylbenzene	ND	NA	ug/L		
p-Isopropyltoluene	ND	NA	ug/L		
1,1,2,2-Tetrachloroethane	52.4	105	ug/L	76-140	
1,3-Dichlorobenzene	47.6	95.2	ug/L	80-120	
1,4-Dichlorobenzene	51.1	102	ug/L	80-120	
n-Butylbenzene	ND	NA	ug/L		
1,2 Dichlorobenzene	49.2	98.4	ug/L	80-120	
1,2-Dibromo-3-chloropropane	ND	NA	ug/L		
1,2,4-Trichlorobenzene	ND	NA	ug/L		
Hexachlorobutadiene	ND	NA	ug/L		
Naphthalene	ND	NA	ug/L		
1,2,3-Trichlorobenzene	ND	NA	ug/L		

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	128	8260C	76-141
1,2-Dichloroethane-D4	129	8260C	80-142
Toluene-D8	104	8260C	80-120
Bromofluorobenzene	99.5	8260C	80-128

ND=Not detected at or above the reporting limit.
NA=Not available or Not analyzed.

ChemSolutions LLC
Matrix Spike Results
Project ID: LTE1140

Client Sample ID: IRAMW18
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C	MATRIX SPIKE		Date Analyzed: 7/16/18				
ANALYTE	DUPLICATE	% RECOVERY	UNITS	RPD	QC Limits	RPD Limit	Qualifier
Dichlorodifluoromethane	ND	NA	ug/L				
Chloromethane	ND	NA	ug/L				
Vinyl Chloride	ND	NA	ug/L				
Bromomethane	ND	NA	ug/L				
Chloroethane	ND	NA	ug/L				
Trichlorofluoromethane	ND	NA	ug/L				
Acetone	ND	NA	ug/L				
1,1-Dichloroethene	66.5	133	ug/L	8.8	74-156	20	
Carbon Disulfide	ND	NA	ug/L				
Methylene Chloride	56.2	112	ug/L	15.9	80-139	20	
Methyl-t-butyl ether	ND	NA	ug/L				
trans-1,2-Dichloroethene	57.4	115	ug/L	13.8	80-148	20	
1,1-Dichloroethane	62.6	125	ug/L	1.6	76-145	20	
2-Butanone	ND	NA	ug/L				
cis-1,2-Dichloroethene	ND	NA	ug/L				
Bromochloromethane	ND	NA	ug/L				
Chloroform	59.6	119	ug/L	13.2	80-141	20	
Tetrahydrofuran	ND	NA	ug/L				
1,1,1-Trichloroethane	63.5	127	ug/L	0.9	80-141	20	
1,1-Dichloropropene	ND	NA	ug/L				
Carbon Tetrachloride	64.4	129	ug/L	2.5	80-142	20	
Benzene	58.1	116	ug/L	12.7	72/140	20	
1,2-Dichloroethane	61.9	124	ug/L	4.1	73-145	20	
Trichloroethene	57.8	107	ug/L	5.7	77-138	20	
1,2-Dichloropropane	50.2	100	ug/L	9.8	80-124	20	
Dibromomethane	ND	NA	ug/L				
Bromodichloromethane	49.7	99.4	ug/L	8.5	75-125	20	
cis-1,3-Dichloropropene	49.6	99.2	ug/L	12.3	80-124	20	
4-Methyl-2-pentanone	ND	NA	ug/L				
Toluene	51.7	103	ug/L	8.0	79-131	20	
2-Hexanone	ND	NA	ug/L				
trans-1,3-Dichloropropene	54.2	108	ug/L	11.0	80-131	20	
1,1,2-Trichloroethane	50.9	102	ug/L	9.9			
1,3-Dichloropropane	ND	NA	ug/L				
Tetrachloroethene	46.2	92.4	ug/L	7.1	80-124	20	
Dibromochloromethane	47.0	94.0	ug/L	11.2	80-123	20	
1,2-Dibromoethane	ND	NA	ug/L				
Chlorobenzene	47.2	94.4	ug/L	9.7	80-131	20	
1,1,1,2-Tetrachloroethane	ND	NA	ug/L				
Ethylbenzene	50.9	102	ug/L	9.0	80-126	20	
Total Xylene	ND	NA	ug/L				
Styrene	ND	NA	ug/L				
Isopropylbenzene	ND	NA	ug/L				
Bromoform	46.4	92.8	ug/L	14.0	62-124	20	

ChemSolutions LLC
Matrix Spike Results
Project ID: LTE1140

Client Sample ID: IRAMW18
Client Project ID: LAC OU5
Sample Matrix: Water

EPA Method 8260C MATRIX SPIKE Date Analyzed: 7/16/18

ANALYTE	DUPLICATE	% RECOVERY	UNITS	RPD	QC Limits	RPD Limit	Qualifier
n-Propylbenzene	ND	NA	ug/L				
Bromobenzene	ND	NA	ug/L				
1,2,3-Trichloropropane	ND	NA	ug/L				
2-Chlorotoluene	ND	NA	ug/L				
4-Chlorotoluene	ND	NA	ug/L				
1,3,5-Trimethylbenzene	ND	NA	ug/L				
t-Butylbenzene	ND	NA	ug/L				
1,2,4-Trimethylbenzene	ND	NA	ug/L				
sec-Butylbenzene	ND	NA	ug/L				
p-Isopropyltoluene	ND	NA	ug/L				
1,1,2,2-Tetrachloroethane	47.2	94.4	ug/L	10.4	76-140	20	
1,3-Dichlorobenzene	43.0	86.0	ug/L	10.2	80-120	20	
1,4-Dichlorobenzene	44.0	88.0	ug/L	14.9	80-120	20	
n-Butylbenzene	ND	NA	ug/L				
1,2 Dichlorobenzene	42.3	84.6	ug/L	15.1	80-120	20	
1,2-Dibromo-3-chloropropane	ND	NA	ug/L				
1,2,4-Trichlorobenzene	ND	NA	ug/L				
Hexachlorobutadiene	ND	NA	ug/L				
Naphthalene	ND	NA	ug/L				
1,2,3-Trichlorobenzene	ND	NA	ug/L				

Surrogate	% Recovery		Surrogate QC Limits
Dibromofluoromethane	112	8260C	76-141
1,2-Dichloroethane-D4	113	8260C	80-142
Toluene-D8	101	8260C	80-120
Bromofluorobenzene	97.6	8260C	80-128

ND=Not detected at or above the reporting limit.
NA=Not available or Not analyzed.