CLEARWATER ENVIRONMENTAL RESOURCES, LLC

SEMI-ANNUAL
PROGRESS REPORT NO. 4
VOLUNTARY REMEDIATION PROGRAM

RAYLOC FACILITY
600 RAYLOC DRIVE
FULTON COUNTY
ATLANTA, GEORGIA
HSI SITE # 10547

CLEARWATER PROJECT NO. 1502-1-3

Prepared For:

Genuine Parts Company
2999 Circle 75 Parkway
Atlanta, Georgia 30339

Prepared By:

Clearwater Environmental Resources, LLC
3870 Peachtree Industrial Boulevard
Suite 340139
Duluth, Georgia 30096

NOVEMBER 12, 2015

CLEARWATER ENVIRONMENTAL RESOURCES, LLC

November 12, 2015

Mr. Allan C. Nix, P.G.
Georgia Department of Natural Resources
Georgia EPD Response and Remediation Program (GAEPD)
2 Martin Luther King Jr. Dr., SE, STE 1462 East
Atlanta, GA 30334

Subject: **Semi-Annual Progress Report No. 4**
Voluntary Remediation Program
Rayloc Facility
600 Rayloc Drive, SW
Atlanta, Fulton County, Georgia 30336
HSI #10547
Clearwater Project No. 1502-1-3

Dear Mr. Nix:

Clearwater Environmental Resources, LLC (Clearwater), under contract to Genuine Parts Company (GPC), respectfully submits this 4th Semi-Annual Progress Report for the Rayloc facility. This report describes the actions taken at the site since the 3rd Semi-Annual Progress Report submitted on April 9, 2015 as well as the comments in your letter dated August 25, 2015.

Clearwater appreciates the opportunity to provide this Progress Report. Please feel free to contact me at (678) 491-4601 or jack.wintle@clearwaterenv.net or Mr. Bob Lewis with Genuine Parts Company at (404) 858-2564 if you have any questions regarding our report.

Sincerely,
Clearwater Environmental Resources, LLC

Jack A. Wintle, P.G.
Senior Environmental Geologist

cc: Mr. Bob Lewis, Genuine Parts Company
Mr. Douglas E. Cloud, Kazmarek Mowrey Cloud Laseter LLP

3870 Peachtree Ind. Blvd., Suite 340139, Duluth, Georgia 30096
Telephone: (678) 491-4601 Fax: (770) 623-1321

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1.0 INTRODUCTION

A Voluntary Remediation Plan (VRP) for the Rayloc facility located at 600 Rayloc Drive in Atlanta, Fulton County, Georgia, was received by the Georgia Environmental Protection Division Response and Remediation Program (GAEPD) on January 15, 2013 and conditionally approved by the GAEPD on October 11, 2013. In order to evaluate the progress of the voluntary clean-up efforts, semi-annual progress reports are required. Please refer to Figure 1 for a Site Aerial Map for the location of the site.

The remedial activities include the continuation of the treatment of contaminated groundwater in and near the former waste pit area using gas-infusion technology with the objective of achieving Type 3 Risk Reduction Standards (RRS). Clearwater has also operated an Air Sparge/Soil Vapor Extraction system which also uses the gas-infusion technology to the only area of impact identified within the former Rayloc building to effect the same result. Further, Clearwater has initiated excavation of impacted soils identified during the PPCAP investigation and anticipates completion within November 2015.

1.1 Groundwater Sampling Protocol

Groundwater sampling activities at the Rayloc Facility are completed in a manner consistent with the current EPA Region 4 SESD Operating Procedure SESDPROC-301-R3, dated March 4, 2013. Unless otherwise noted, each monitoring well is sampled via bailers or the "Low Flow" method using a bladder pump. These methodologies were selected based on the target depth of the samples and the objective of minimizing investigation-derived waste (IDW). Sampling commences when parameters in the purged groundwater reach a pH variance of no more than 0.1 SU, a specific conductance variance of no more than 5% of the observed value, and a turbidity variance of less than 5 NTU or a total reading of less than 10 NTU, when possible. Sampling commences after the removal of three measured well volumes if stabilization has not been noted in the purging parameters.

Purging of each shallow monitoring well (less than 33 feet) is completed in a controlled, quiescent manner with single-use, disposable polyethylene bailers. Stabilization criteria of the purged groundwater are evaluated with a YSI 556 multi-parameter instrument and a nephelometric turbidimeter. The YSI 556 and turbidimeter are calibrated by a third-party equipment supplier and verified on-site per Operating Procedures SESDPROC-100, SESDPROC-101, and SESDPROC-103.

Sampling of the deeper (greater than 33 feet) monitoring wells is completed via a bladder pump constructed with stainless steel housing and Teflon bladders in conjunction with a QED MicroPurge controller. The bladder pump intake is placed at the target screen interval of the monitoring well, and the samples are collected through single-use, down-well polyethylene tubing and bladder. At the start and end of the sampling event, and after each monitoring well sampled, the stainless steel housing of the bladder pump is decontaminated in a pre-rinse, a Liquinox bath, and subsequently rinsed with deionized water. IDW including purged groundwater, polyethylene bailers, bailer twine,

polyethylene tubing, and Teflon bladders are stockpiled in one or more sealed 55-gallon drums during each sampling event, and transported off-site at periodic intervals. Following collection in laboratory-supplied containers, groundwater samples are stored on site with wet ice as a preservative and delivered to the designated lab under chain-of-custody protocols.

1.2 Stormwater System and Discharge Point

The former Rayloc property stormwater system is present on the south and west sides of the building. Surface water from the southeastern side of the building drains toward the west where it enters a grated vault approximately 6 feet deep. The stormwater flows from this location through piping towards the west where it enters another stormwater vault that redirects the water towards the north along the west side of the building. There are two more grated vaults along the western side of the building. The stormwater then flows through the piping to a drainage feature on the northwest side of the property, the southern right of way of Martin Luther King, Jr. Drive where it flows west. Please see Figure 2 for an aerial map showing the stormwater system and discharge point.

2.0 MILESTONES COMPLETED SINCE APRIL 9, 2015

Since April 9, 2015, Clearwater has installed and operated a remedial system in the Parts Disassembly and Cleaning Area (PDA) of the former Rayloc building, installed additional injection and monitoring wells, continued the eGeo System groundwater remedial system, and conducted a groundwater sampling event on the twenty-one (21) compliance wells. The following milestones discuss our findings.

2.2 Source Area eGeo Remedial System

Clearwater has expended significant time, effort in an attempt to remediate the source area vadose zone impact in-situ. After months of operating an AS/SVE system, conducting pilot studies, varying the injection and extraction rates, installing new injection and extraction wells and collecting verification samples, we have determined that the gas-infusion remediation, while potentially viable in the long run, has not produced the results needed to indicate remediation to the RRS in the timeframe required. Therefore, GPC and Clearwater are in the process of proposing an alternative remedial option for this area.

2.3 Compliance Well Groundwater Sampling Event

In early October 2015, Clearwater collected groundwater samples from the twenty (20) compliance wells at the Rayloc property.

Some wells have maintained their concentrations of VOCs while others have shown excellent reduction in tetrachloroethene (PCE). MW-15 saw a reduction from 156 ppb in November 2012 to 5.23 ppb in October 2015 and MW-19 from 97 ppb in November 2012 to 8.12 ppb in October 2015. These wells are located near the drainage feature east of Wendell Drive and are located near injection wells.

Results of PCE levels in RAD-4, a deep source area well, have gone down from 20,000 ppb in January 2010 to less than 5 ppb in October 2015 and results of PCE levels from RAD-5, a deep well adjacent to the source area, have gone down from 13,500 ppb in November 2012 to 841 in October 2015. These reductions in contaminant concentrations may be due to the typical rebounding of dechlorinating microbes when the temperature drops after an Electro-Thermal Dynamic Stripping Process or ET-DSP™ system is deactivated. The ET-DSP™ system was shut down in 2008.

While many of these results are gradual, since starting with such high levels they are acceptable as they are showing a reduction. We continually strive to adjust our injection rates and mixtures as well as locate more injection wells in order to provide a more effective system and anticipate continued reduction of contaminant levels.

Monitoring wells MW-15, MW-17 and MW-19, all located along the drainage feature south or Wendell Drive are considered the leading edge of the plume. While MW-17 still has high levels of PCE (1,140 ppb), this level has steadily gone down from the 2,100 ppb measured in February 2009. Clearwater assumes that the plume will follow the drainage feature instead of moving across the feature and in an upgradient direction across Interstate 20. As such, MW-15 would then be the monitoring well at the leading edge. These three wells have all detected levels of vinyl chloride (VC) ranging from 6.65 ppb in MW-17 to 55.2 ppb in MW-15, which may indicate the leading edge of the plume.

MW-10 is located in what has been determined to be approximately 900 to 1,000 feet west and downgradient of the Rayloc plume (between MW-17 and MW-19) due to the presence of a drainage feature that runs east to west between Wendell Drive and Interstate 20 (see Figure 8 PCE Isoconcentration Map). Monitoring wells MW-15, 17 and 19 are located on the north side of the drainage feature in a downgradient location. Topography on the south side of the drainage feature climbs gently to the south towards Interstate 20. Clearwater considers MW-10 to be downgradient of the plume and the Point of Exposure (POE).

Clearwater recommends installing two new monitoring wells to be used as Point of Demonstration (POD) wells: one between the abandoned MW-14 and MW-10; and one along the drainage feature between MW-10 and MW-15. Groundwater samples collected from MW-10 have had no detections while MW-15 has had only a minor detection of PCE (5.23 ppb) and 55.2 ppb of vinyl chloride.

3.0 MILESTONES IN-PROGRESS OR TO BE COMPLETED

The milestones that are either in-progress or to be completed at the Rayloc property are outlined in the following sections.

3.1 Former Parts Disassembly and Cleaning Area AS/SVE Remedial System

Clearwater has installed and operated an Air Sparge/Soil Vapor Extraction (AS/SVE) system in the former PDA area which utilizes the gas-infusion technology used for the groundwater remediation. Clearwater collected two additional soil samples from the northwest side of the PDA area to address elevated levels of VOCs in the effluent of the AS/SVE system. These two locations (ADD-1 and ADD-2) detected elevated levels of PCE and Clearwater is in the process of installing additional injection and excavation wells to address this area.

This system has shown a mostly steady decline in volatile organic compounds (VOCs) since inception with a couple of exceptions. Adjustments are made on an as needed basis to maintain the effectiveness of the system. We are confident that this system will reduce the impacts to below the RRS within the next few months.

Clearwater will continue to collect verification soil samples from the same locations within the PDA area every two months to compare results. This will allow eGeo Services to adjust injection or extraction flows and/or gas concentrations to provide more effective remediation of the impact. Please refer to Table 5 for a summary of the PDA verification soil sample results and figure 9 for a figure showing the analytical results for each of the sampled locations.

3.2 Complete Horizontal and Vertical Delineation

Although much of the impacted groundwater has been delineated, Clearwater is in the process of further delineating the groundwater impact as well as delineating the soil impact at the Rayloc property. The soil impact within the Rayloc building has been identified and is being addressed as previously discussed. Please refer to Figure 4 for a map showing the soil excavation locations.

3.4 Vapor-Intrusion Investigation (Rayloc Building)

Soil-vapor samples will be collected from locations within the Rayloc building to determine whether chlorinated solvents in the site groundwater may have migrated to the building area. These samples will be collected upon completion of the remediation of the impact in the Parts Disassembly & Cleaning Area. This Area is located in an unused area of the Rayloc building, away from any currently used areas. The only area being consistently used currently is the high ceilinged warehouse where the trucks are loaded and unloaded through bay doors using forklifts.

4.0 CERTIFICATIONS

4.1 Professional Geologist Certification

"I certify under penalty of law that this report and all attachments were prepared by me or under my direct supervision in accordance with the Voluntary Remediation Program Act (O.C.G.A. Section 12-8-101, et seq.). I am a professional geologist who is registered with the Georgia State Board of Registration for Professional Geologists and I have the necessary experience and am in charge of the investigation and remediation of this release of regulated substances.

Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since the previous submittal to the Georgia Environmental Protection Division.

The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

Please refer to Table 5 for a Summary of Professional Oversight Hours.

Jack A. Wintle P.G.
Senior Environmental Geologist

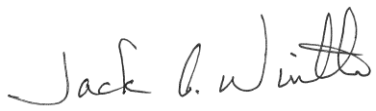
Date: November 12, 2015



Geologist Seal

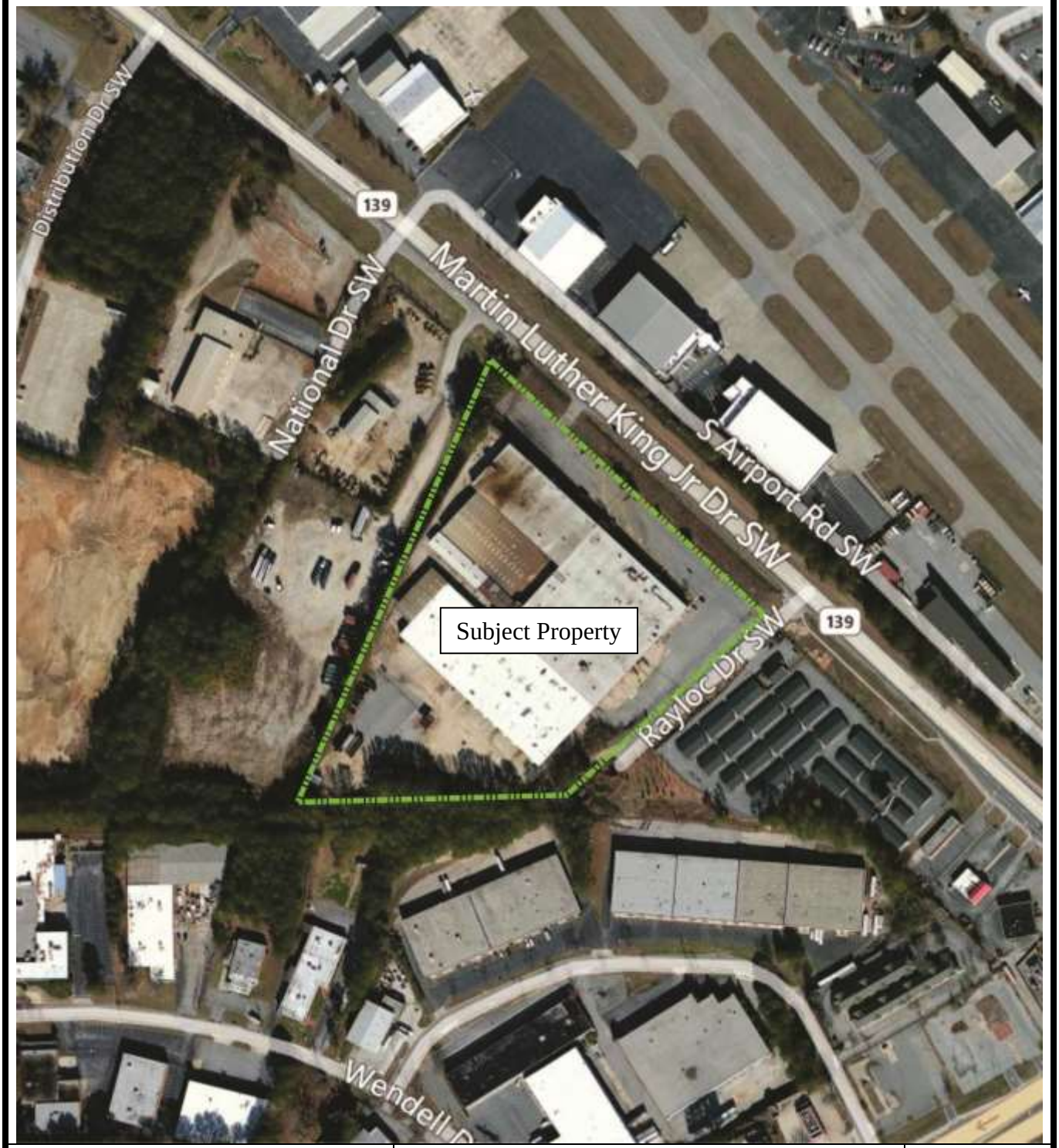
CD CERTIFICATION

I certify that this electronic copy is complete, identical to the paper copy, and virus free.

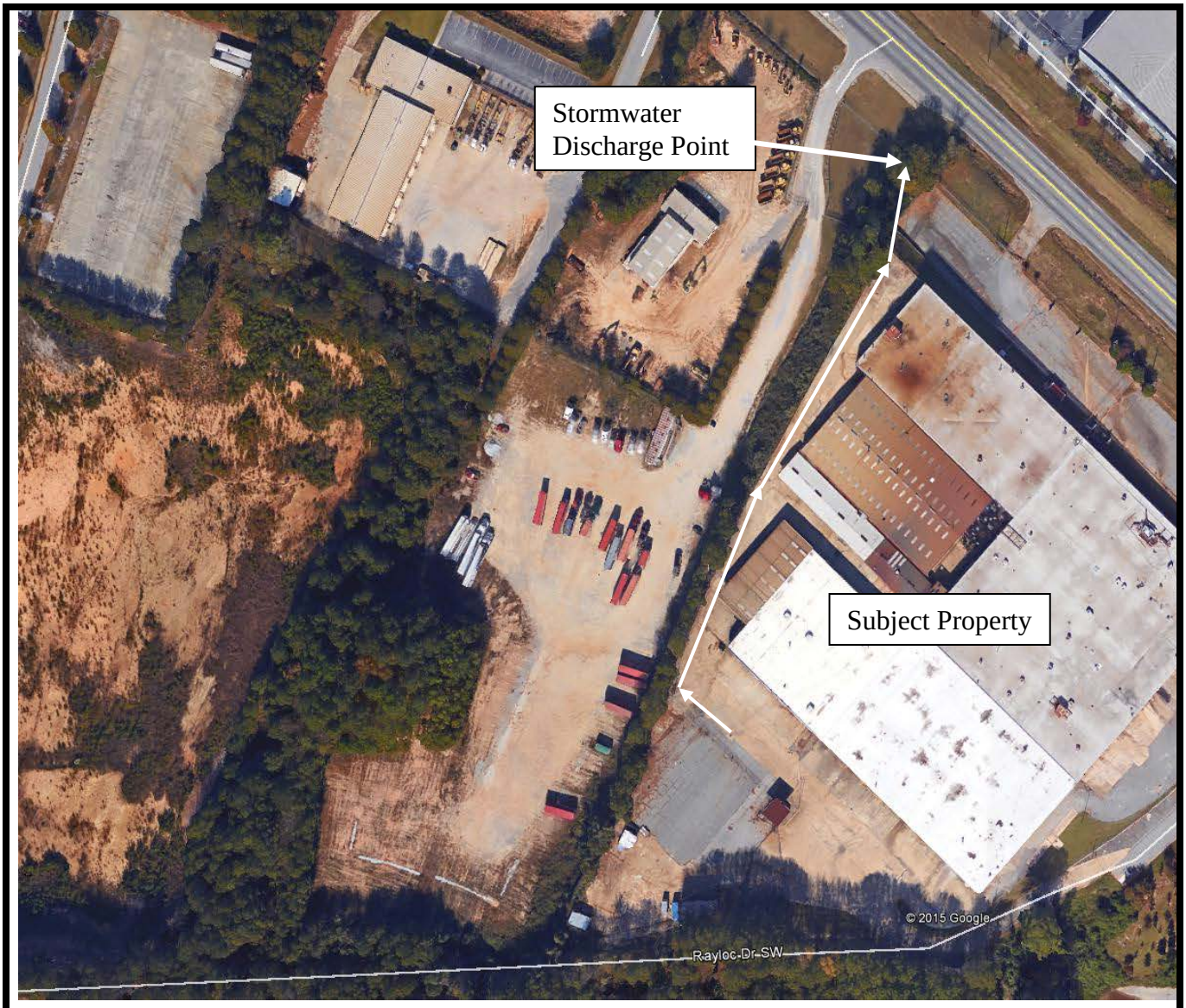


Jack A. Wintle, P.G.
Senior Environmental Geologist
Clearwater Environmental Resources, LLC

FIGURES



Legend		Figure 1 – Site Aerial Map	Scale
Map Source: Google Earth	N	**Rayloc Facility** **600 Rayloc Drive** **Atlanta, Fulton County, Georgia**	NTS
Map Date: 10-31-2012		**CLEARWATER ENVIRONMENTAL RESOURCES, LLC** **3870 Peachtree Industrial Boulevard** **Suite 340139** **Duluth, Georgia 30096**	
Project No.: **1502-1-3**	JAW		



Legend		Figure 2 – Site Aerial Map Showing Stormwater Discharge Point	Scale
Map Source: Google Earth	N	**Rayloc Facility** **600 Rayloc Drive** **Atlanta, Fulton County, Georgia**	NTS
Map Date: 10-31-2012		**CLEARWATER ENVIRONMENTAL RESOURCES, LLC** **3870 Peachtree Industrial Boulevard** **Suite 340139** **Duluth, Georgia 30096**	
Project No.: **1502-1-3**	JAW		

ADD-2	@ 5'	@ 10'
Cis -	<5.0	6.01
PCE -	3100	198
TCE -	48.7	6.26
VC -	<0.02	<0.02

ADD-1	@ 6'	@ 10'
Cis -	9.05	6.01
PCE -	30.4	198
TCE -	2.19	6.26
VC -	<0.02	<0.02

WD-11 @ 10'	
Cis -	<5.0
PCE -	381
TCE -	<5.0
VC -	<0.02

WD-8 @ 2 5'	
Cis -	8.74
PCE -	43
TCE -	1.87
VC -	<0.02

WD-4 @ 10'	
Cis -	7.08
PCE -	317
TCE -	6.12
VC -	<0.02

WD-2 @ 10'	
Cis -	<5.0
PCE -	3.46
TCE -	<5.0
VC -	<0.02

PD-2 @ 10'	
Cis -	2.35
PCE -	13.3
TCE -	2.33
VC -	<0.02

PDA-E-7
ADD-2
WD-9
PDA-I-6
PDA-E-6
ADD-1
PDA-E-10
PDA-I-8
PDA-E-11
WD-1
WD-4
PDA-I-5
WD-11
WD-8
PDA-E-5
PD-1
PDA-E-9
PDA-I-7
PDA-I-4
WD-10
WD-2
PDA-E-4
WD-5
WD-12
PDA-I-3
PDA-E-8
PD-2
PDA-E-3
WD-3
PDA-I-2
WD-6
PD-3
PDA-E-2
PDA-I-1
WD-7
PDA-E-1

LOCATION OF FORMER
PARTS DISASSEMBLY
AND CLEANING AREA

LEGEND

- Soil Sample Boring
- Injection/Extraction Well

MW-##	
Cis -	##
PCE -	##
TCE -	##
VC -	##

Monitoring Well Identification Tag
Cis - Cis-1-2-Dichloroethene
PCE - Tetrachloroethene
TCE - Trichloroethene
VC - Vinyl chloride

Results in ppm

0 5' 10'
Approximate Scale In Feet

N

CLEARWATER ENVIRONMENTAL RESOURCES, LLC

Drawing:	Rayloc_Fig3 PDA 11-12-2015.dwg	FIGURE 3
Revision #:	0	PDA SAMPLING RESULTS
Date:	11/2015	RAYLOC FACILITY
Project #:	1502-1-3	OCTOBER 2015

Rayloc_Fig3 PDA 11-12-2015.dwg

LUTHER KING DRIVE (200' R/

Former Location of 20,000 Gallon UST

Parking Lot

RENT RITE

Location of Former Cleaning Ovens

CO-1

CO-2

Location of Former Parts Assembly and Cleaning Area

PD-1

PD-2

PD-3

Parking Lot

OT-7

OT-6

CD-2

CD-1

Caustic Deterioration

Dryer / Furnace

MS-1

MS-2

MS-3

Chain Link Fence

Blue Hand Rail

Maintenance Shop

Stairs Entrance

LOADING DOCK

METAL SHED

OT-1

OT-5

OT-4

OT-2

Open Trenches Area

OT-3

RAYLOC

BUILDING

1 STORY BRICK WAREHOUSE

Vent Pipe

UST-1

UST-2

Potential Location of 1,500 Gallon UST

SIP INDUSTRIES

AST-1

AST-2

AST-3

Former Chemical AST Area

CONCRETE BUILDING

30' 15' 0 30'

Feet

1"=15'

LEGEND

Excavations

Well Location

Building With Roof

OT Open Trenches

CD Caustic Deterioration

MS Maintenance Shop

PD Parts Disassembly

CO Cleaning Oven

Property Line

Chain Link Fence

LEGEND

Soil Sample Boring

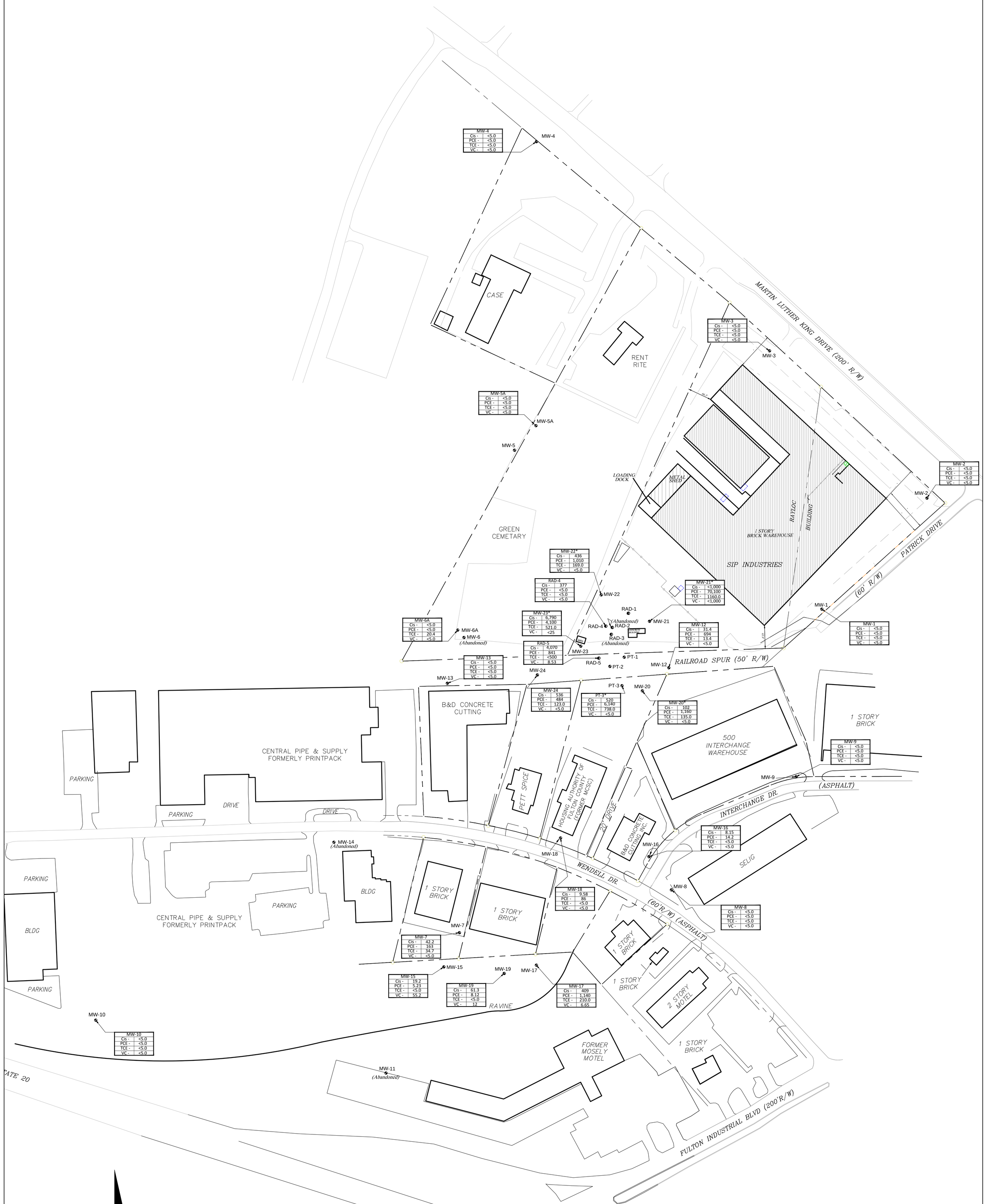
Injection/Extraction Well

CLEARWATER ENVIRONMENTAL RESOURCES, LLC	*Drawing:* Rayloc 11-12-2015.dwg	FIGURE 4
	Revision #: 0	LOCATION OF EXCAVATIONS
	Date: 11/2015	RAYLOC FACILITY
	Project #: 1502-1-3	OCTOBER 2015

Rayloc 11-12-2015.dwg

Clearwater Environmental Resources, LLC
March 2015

Genuine Parts Company
Atlanta, GA

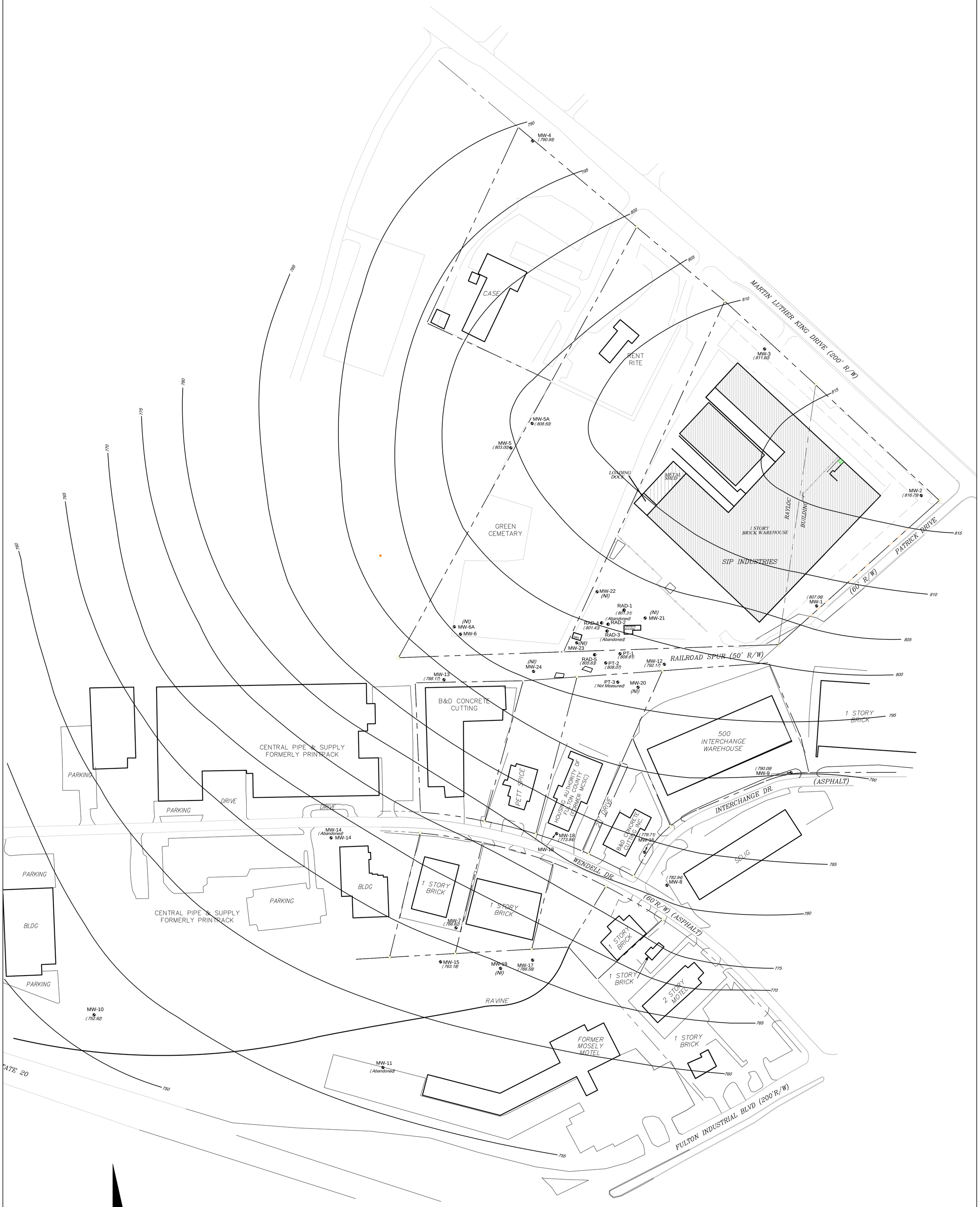


Rayloc 11-12-2015.dwg

CLEARWATER ENVIRONMENTAL RESOURCES, LLC

Drawing:	Rayloc 11-12-2015.dwg	FIGURE 5
Revision #:	0	GROUNDWATER SAMPLING RESULTS
Date:		RAYLOC FACILITY
Project #:	1502-1-3	OCTOBER 2015

Genuine Parts Company
Atlanta, GA



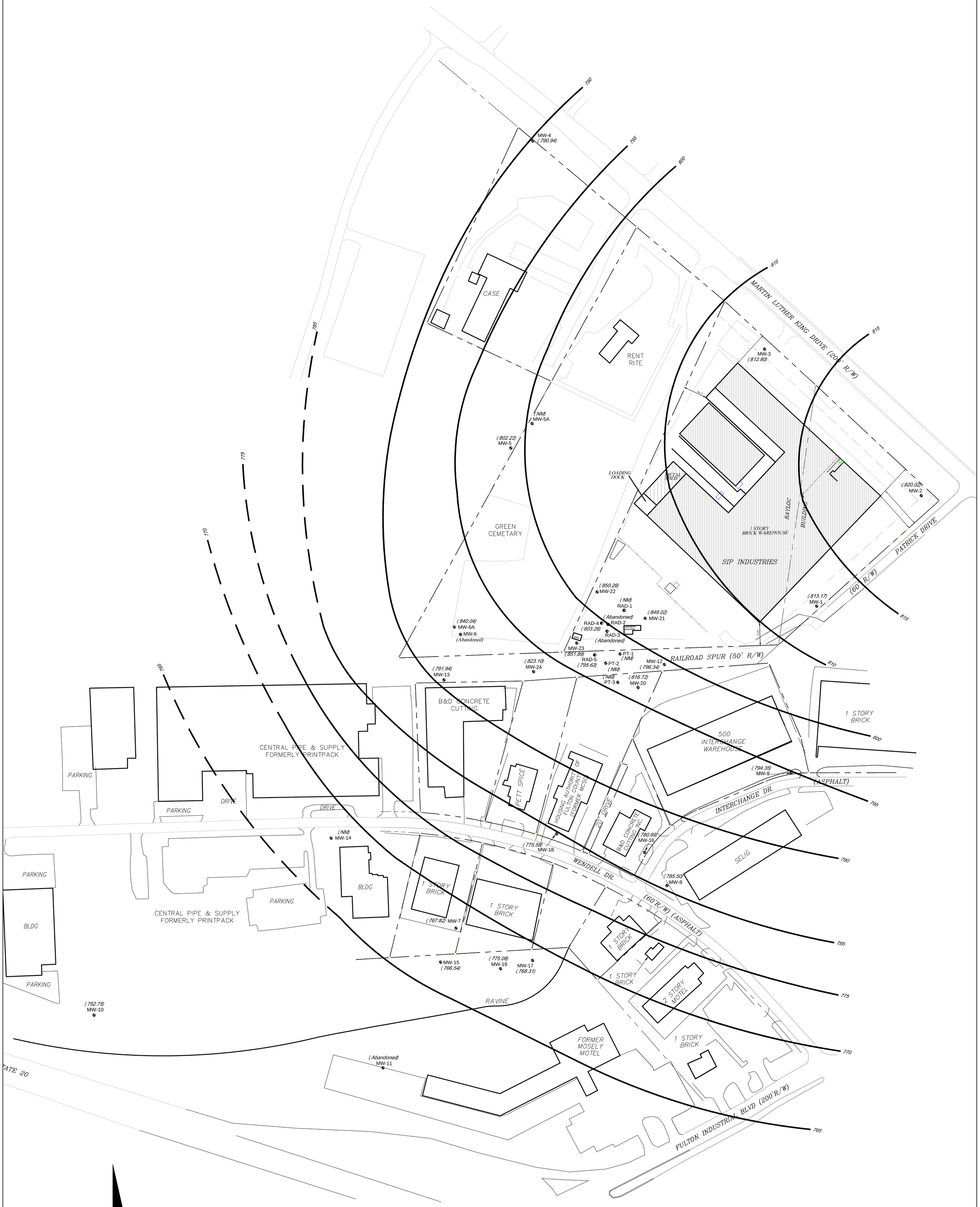
240' 120' 0 240' Feet

LEGEND
- NI — Not Installed
- Monitoring Well Location
- 755 — Groundwater Contour with Elevation
- (763.18) — Groundwater Elevation
- Property Line

CLEARWATER ENVIRONMENTAL RESOURCES, LLC

Drawing:	Rayloc 11-12-2015.dwg	FIGURE 6
Revision #:	0	POTENTIOMETRIC SURFACE MAP
Date:	06 /15/ 2013	RAYLOC FACILITY
Project #:	1221-1-2	MARCH 2013

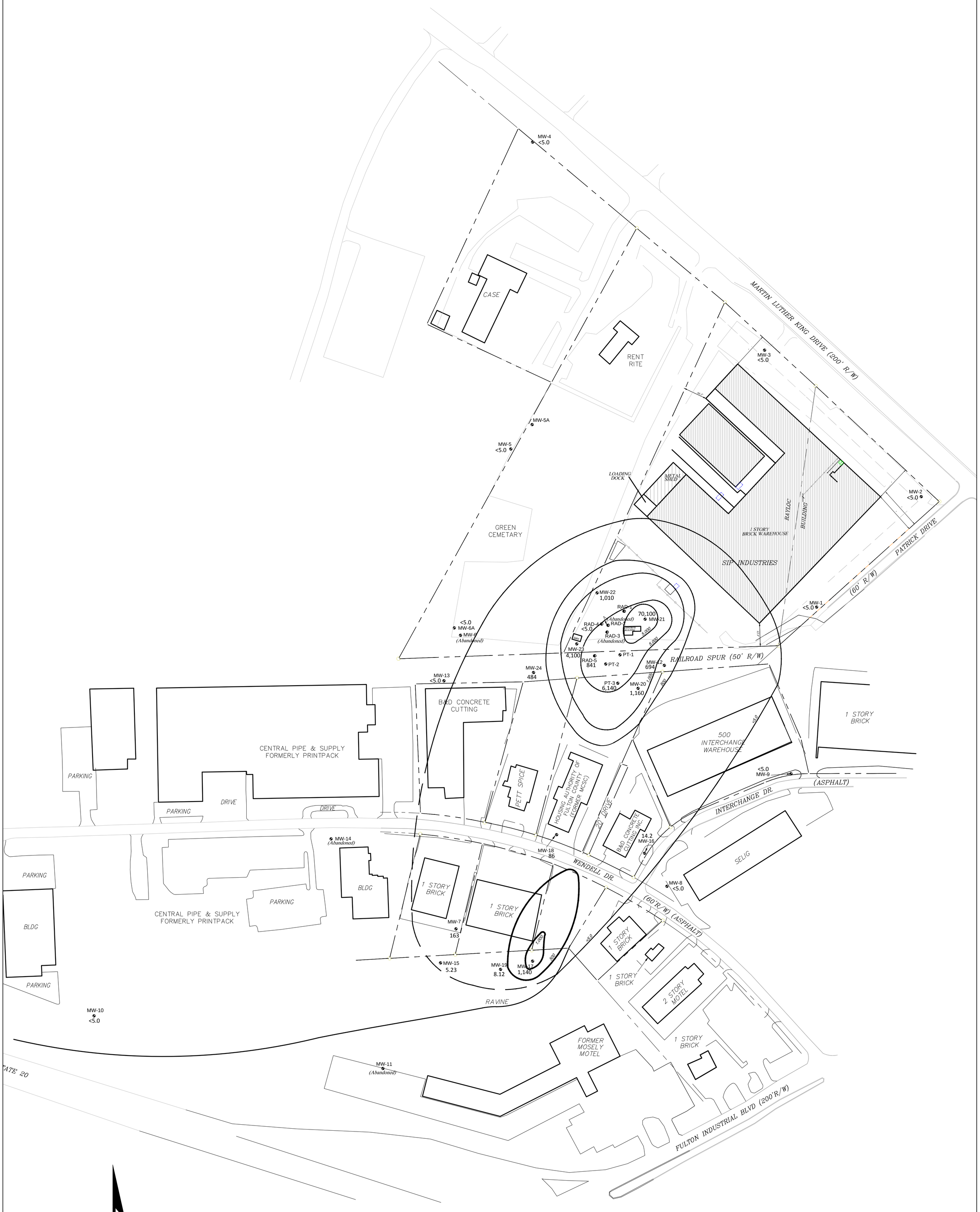
Rayloc 11-12-2015.dwg



Rayloc 11-12-2015.dwg

CLEARWATER ENVIRONMENTAL RESOURCES, LLC

Drawing: Rayloc 11-12-2015.dwg	FIGURE 7
Revision #: 0	POTENTIOMETRIC SURFACE MAP
Date:	RAYLOC FACILITY
Project #: 1502-1-3	OCTOBER 2015



CLEARWATER ENVIRONMENTAL RESOURCES, LLC

Drawing:	Rayloc 11-12-2015.dwg	FIGURE 8
Revision #:	0	PCE ISOCONCENTRATION MAP
Date:		RAYLOC FACILITY
Project #:	1502-1-3	OCTOBER 2015

Rayloc 11-12-2015.dwg

Sage Environmental Consulting, L.P.
October 2015

Genuine Parts Company
Atlanta, GA

MW-22

RAD-1

MW-21

RAD-2
(Abandoned)

RAD 3
(ABANDONED)

RAD 4

CONCRETE BUILDING

SHED

Power Pole

MW-23

SA-17	@ 20'	@ 30'
Cis -	<45.5	<15.3
PCE -	4,790	2,350
TCE -	75.9	22.8
VC -	<137	<46.0

SA-18	@ 15'	@ 30'
Cis -	30	<29.6
PCE -	4,230	2,350
TCE -	46.5	<29.6
VC -	<87.2	<88.7

SA-14	@ 15"	@ 20'
Cis -	36.4	<55.3
PCE -	4,850	3,950
TCE -	246	929
VC -	<93.6	<166

SA-15 @ 30'	
Cis -	<0.004
PCE -	0.027
TCE -	<0.004
VC -	<0.13

SA-19	@ 10'	@ 30'
Cis -	127	<534
PCE -	5,230	35,500
TCE -	374.0	<534
VC -	<150	<1,600

SA-12	@ 15'	@ 30'
Cis -	<23.2	<54.3
PCE -	7,190	6,930
TCE -	128	<54.3
VC -	<69.5	<163

SA-13	@ 15"	@ 30'
Cis -	<21.6	<59.1
PCE -	1,150	6,560
TCE -	164	<59.1
VC -	<64.8	<177

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

0 10' 20'
Approximate Scale In Feet

N

LEGEND

- Soil Sample Boring Locations
- Bedrock Monitoring Well
- Monitoring Well Location
- Property Line

MW-##	
Cis -	##
PCE -	##
TCE -	##
VC -	##

Results in ppm

Monitoring Well Identification Tag
Cis - Cis-1-2-Dichloroethene
PCE - Tetrachloroethene
TCE - Trichloroethene
VC - Vinyl chloride

CLEARWATER ENVIRONMENTAL RESOURCES, LLC

Drawing:	Rayloc 11-12-2015.dwg
Revision #:	0
Date:	11/2015
Project #:	1502-1-3

FIGURE 9
SOURCE AREA SAMPLING RESULTS
RAYLOC FACILITY
JUNE 2015

Rayloc 11-12-2015.dwg

APPENDIX A
OCTOBER 2015 PDA LABORATORY DATA

NELAP CERTIFICATE NUMBER: 01955
DOD ELAP CERTIFICATE NUMBER: L14-243

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 10/27/2015

GCAL Report 215102109

Project Rayloc PDA Confirmation

Deliver To	***Report cc***
Jack Wintle Clearwater Env. Resources Peachtree Industrial blvd Duluth, GA 30096 678-491-4601	Jack Wintle, Clearwater Env. Resources

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
DL	Diluted analysis – when appended to Client Sample ID
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
00:01	Reported as a time equivalent to 12:00 AM

Reporting Flags that may be Utilized in this Report

J or I	Indicates the result is between the MDL and LOQ
J	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
U	Indicates the compound was analyzed for but not detected
B or V	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*****	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
E	The result is estimated because it exceeded the instrument calibration range
E	Metals - % diference for the serial dilution is > 10%

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC Institute standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____
Authorized Signature
GCAL Report 215102109

Case Narrative

Client: Clearwater Environmental Resources **Report:** 215102109

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the EPA 8260B analysis, sample(s) 21510210901 (PD-2@10'), 21510210902 (WD-2@10'), 21510210903 (WD-4@10'), 21510210904 (WD-8@5'), 21510210905 (WD-11@10'), 21510210906 (ADD-1@6'), 21510210907 (ADD-1@10'), 21510210908 (ADD-2@5') and 21510210909 (ADD-2@10') had to be diluted due to the presence of non-target background and/or to bracket the concentration of target compounds within the calibration range of the instrument. The dilution is reflected in elevated reporting limits.

In the EPA 8260B analysis for analytical batch 570842, the LCS and/or LCSD recoveries are above the upper control limit for Methyl iodide. This compound was not detected in the associated samples.

In the EPA 8260B analysis for analytical batch 570783, the LCS/LCSD RPD is above the control limit for Acetone.

Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21510210901	PD-2@10'	Solid	10/19/2015 10:33	10/21/2015 10:11
21510210902	WD-2@10'	Solid	10/19/2015 10:55	10/21/2015 10:11
21510210903	WD-4@10'	Solid	10/19/2015 11:55	10/21/2015 10:11
21510210904	WD-8@5'	Solid	10/19/2015 09:56	10/21/2015 10:11
21510210905	WD-11@10'	Solid	10/19/2015 11:10	10/21/2015 10:11
21510210906	ADD-1@6'	Solid	10/19/2015 11:28	10/21/2015 10:11
21510210907	ADD-1@10'	Solid	10/19/2015 11:28	10/21/2015 10:11
21510210908	ADD-2@5'	Solid	10/19/2015 12:12	10/21/2015 10:11
21510210909	ADD-2@10'	Solid	10/19/2015 12:12	10/21/2015 10:11
21510210910	TRIP BLANK	Water	10/19/2015 00:01	10/21/2015 10:11

Summary of Compounds Detected

PD-2@10'

Collect Date	10/19/2015 10:33	**GCAL ID**	21510210901
Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	2.43	0.412	mg/kg
156-59-2	cis-1,2-Dichloroethene	2.35	0.206	mg/kg
127-18-4	Tetrachloroethene	13.3	2.06	mg/kg
79-01-6	Trichloroethene	2.33	0.206	mg/kg

WD-2@10'

Collect Date	10/19/2015 10:55	**GCAL ID**	21510210902
Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	3.46	0.265	mg/kg

WD-4@10'

Collect Date	10/19/2015 11:55	**GCAL ID**	21510210903
Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
156-59-2	cis-1,2-Dichloroethene	7.08	3.93	mg/kg
127-18-4	Tetrachloroethene	317	39.3	mg/kg
79-01-6	Trichloroethene	6.12	3.93	mg/kg

WD-8@5'

Collect Date	10/19/2015 09:56	**GCAL ID**	21510210904
Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	8.74	1.99	mg/kg
156-59-2	cis-1,2-Dichloroethene	8.74	0.996	mg/kg
127-18-4	Tetrachloroethene	42.7	9.96	mg/kg
79-01-6	Trichloroethene	1.86	0.996	mg/kg

Summary of Compounds Detected

WD-11@10'

Collect Date	10/19/2015 11:10	**GCAL ID**	21510210905
Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	381	42.1	mg/kg

ADD-1@6'

Collect Date	10/19/2015 11:28	**GCAL ID**	21510210906
Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	9.05	0.952	mg/kg
156-59-2	cis-1,2-Dichloroethene	9.05	0.476	mg/kg
127-18-4	Tetrachloroethene	30.4	4.76	mg/kg
79-01-6	Trichloroethene	2.19	0.476	mg/kg

ADD-1@10'

Collect Date	10/19/2015 11:28	**GCAL ID**	21510210907
Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	4.19	1.000	mg/kg
156-59-2	cis-1,2-Dichloroethene	4.05	0.500	mg/kg
127-18-4	Tetrachloroethene	54.9	5.00	mg/kg
79-01-6	Trichloroethene	5.36	0.500	mg/kg

ADD-2@5'

Collect Date	10/19/2015 12:12	**GCAL ID**	21510210908
Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	3100	449	mg/kg
79-01-6	Trichloroethene	48.7	44.9	mg/kg

Summary of Compounds Detected

ADD-2@10'	**Collect Date**	10/19/2015 12:12	**GCAL ID**	21510210909
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	6.01	5.35	mg/kg
156-59-2	cis-1,2-Dichloroethene	6.01	2.68	mg/kg
127-18-4	Tetrachloroethene	198	53.5	mg/kg
79-01-6	Trichloroethene	6.26	2.68	mg/kg

Sample Results

PD-2@10'	**Collect Date**	10/19/2015 10:33	**GCAL ID**	21510210901
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	50	10/23/2015 16:08	CLH	570842

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.206	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	0.206	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.206	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	0.206	mg/kg
75-34-3	1,1-Dichloroethane	ND	0.206	mg/kg
75-35-4	1,1-Dichloroethene	ND	0.206	mg/kg
563-58-6	1,1-Dichloropropene	ND	0.206	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	0.206	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	0.206	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	0.206	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.206	mg/kg
106-93-4	1,2-Dibromoethane	ND	0.206	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	0.206	mg/kg
107-06-2	1,2-Dichloroethane	ND	0.206	mg/kg
540-59-0	**1,2-Dichloroethene(Total)**	**2.43**	**0.412**	**mg/kg**
78-87-5	1,2-Dichloropropane	ND	0.206	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	0.206	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	0.206	mg/kg
142-28-9	1,3-Dichloropropane	ND	0.206	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	0.206	mg/kg
594-20-7	2,2-Dichloropropane	ND	0.206	mg/kg
78-93-3	2-Butanone	ND	0.206	mg/kg
95-49-8	2-Chlorotoluene	ND	0.206	mg/kg
591-78-6	2-Hexanone	ND	0.206	mg/kg
106-43-4	4-Chlorotoluene	ND	0.206	mg/kg
99-87-6	4-Isopropyltoluene	ND	0.206	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	0.206	mg/kg
67-64-1	Acetone	ND	1.03	mg/kg
71-43-2	Benzene	ND	0.206	mg/kg
108-86-1	Bromobenzene	ND	0.206	mg/kg
74-97-5	Bromochloromethane	ND	0.206	mg/kg
75-27-4	Bromodichloromethane	ND	0.206	mg/kg
75-25-2	Bromoform	ND	0.206	mg/kg
74-83-9	Bromomethane	ND	0.206	mg/kg
75-15-0	Carbon disulfide	ND	0.206	mg/kg
56-23-5	Carbon tetrachloride	ND	0.206	mg/kg
108-90-7	Chlorobenzene	ND	0.206	mg/kg
75-00-3	Chloroethane	ND	0.206	mg/kg
67-66-3	Chloroform	ND	0.206	mg/kg
74-87-3	Chloromethane	ND	0.206	mg/kg
156-59-2	**cis-1,2-Dichloroethene**	**2.35**	**0.206**	**mg/kg**
10061-01-5	cis-1,3-Dichloropropene	ND	0.206	mg/kg
124-48-1	Dibromochloromethane	ND	0.206	mg/kg
74-95-3	Dibromomethane	ND	0.206	mg/kg
75-71-8	Dichlorodifluoromethane	ND	0.206	mg/kg
100-41-4	Ethylbenzene	ND	0.206	mg/kg
87-68-3	Hexachlorobutadiene	ND	0.206	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	0.206	mg/kg

Sample Results

PD-2@10'	**Collect Date**	10/19/2015 10:33	**GCAL ID**	21510210901
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	50	10/23/2015 16:08	CLH	570842

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	0.412	mg/kg
74-88-4	Methyl iodide	ND	0.206	mg/kg
75-09-2	Methylene chloride	ND	0.412	mg/kg
91-20-3	Naphthalene	ND	0.206	mg/kg
104-51-8	n-Butylbenzene	ND	0.206	mg/kg
103-65-1	n-Propylbenzene	ND	0.206	mg/kg
95-47-6	o-Xylene	ND	0.206	mg/kg
135-98-8	sec-Butylbenzene	ND	0.206	mg/kg
100-42-5	Styrene	ND	0.206	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	0.206	mg/kg
98-06-6	tert-Butylbenzene	ND	0.206	mg/kg
108-88-3	Toluene	ND	0.206	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	0.206	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	0.206	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	0.206	mg/kg
79-01-6	**Trichloroethene**	**2.33**	**0.206**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	0.206	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	0.206	mg/kg
75-01-4	Vinyl chloride	ND	0.206	mg/kg
1330-20-7	Xylene (total)	ND	0.618	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1.78	1.93	ug/Kg	108	62 - 127
1868-53-7	Dibromofluoromethane	1.78	1.73	ug/Kg	97	65 - 130
2037-26-5	Toluene d8	1.78	1.89	ug/Kg	106	71 - 132
17060-07-0	1,2-Dichloroethane-d4	1.78	1.67	ug/Kg	94	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	500	10/23/2015 13:51	LBH	570842

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**13.3**	**2.06**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	17.80	17.8	ug/Kg	100	62 - 127
1868-53-7	Dibromofluoromethane	17.80	16.5	ug/Kg	93	65 - 130
2037-26-5	Toluene d8	17.80	18.2	ug/Kg	102	71 - 132
17060-07-0	1,2-Dichloroethane-d4	17.80	16.3	ug/Kg	92	62 - 125

Sample Results

WD-2@10'	**Collect Date**	10/19/2015 10:55	**GCAL ID**	21510210902
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	50	10/22/2015 19:29	JCK	570783

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.265	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	0.265	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.265	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	0.265	mg/kg
75-34-3	1,1-Dichloroethane	ND	0.265	mg/kg
75-35-4	1,1-Dichloroethene	ND	0.265	mg/kg
563-58-6	1,1-Dichloropropene	ND	0.265	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	0.265	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	0.265	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	0.265	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.265	mg/kg
106-93-4	1,2-Dibromoethane	ND	0.265	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	0.265	mg/kg
107-06-2	1,2-Dichloroethane	ND	0.265	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	0.531	mg/kg
78-87-5	1,2-Dichloropropane	ND	0.265	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	0.265	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	0.265	mg/kg
142-28-9	1,3-Dichloropropane	ND	0.265	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	0.265	mg/kg
594-20-7	2,2-Dichloropropane	ND	0.265	mg/kg
78-93-3	2-Butanone	ND	0.265	mg/kg
95-49-8	2-Chlorotoluene	ND	0.265	mg/kg
591-78-6	2-Hexanone	ND	0.265	mg/kg
106-43-4	4-Chlorotoluene	ND	0.265	mg/kg
99-87-6	4-Isopropyltoluene	ND	0.265	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	0.265	mg/kg
67-64-1	Acetone	ND	1.33	mg/kg
71-43-2	Benzene	ND	0.265	mg/kg
108-86-1	Bromobenzene	ND	0.265	mg/kg
74-97-5	Bromochloromethane	ND	0.265	mg/kg
75-27-4	Bromodichloromethane	ND	0.265	mg/kg
75-25-2	Bromoform	ND	0.265	mg/kg
74-83-9	Bromomethane	ND	0.265	mg/kg
75-15-0	Carbon disulfide	ND	0.265	mg/kg
56-23-5	Carbon tetrachloride	ND	0.265	mg/kg
108-90-7	Chlorobenzene	ND	0.265	mg/kg
75-00-3	Chloroethane	ND	0.265	mg/kg
67-66-3	Chloroform	ND	0.265	mg/kg
74-87-3	Chloromethane	ND	0.265	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	0.265	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	0.265	mg/kg
124-48-1	Dibromochloromethane	ND	0.265	mg/kg
74-95-3	Dibromomethane	ND	0.265	mg/kg
75-71-8	Dichlorodifluoromethane	ND	0.265	mg/kg
100-41-4	Ethylbenzene	ND	0.265	mg/kg
87-68-3	Hexachlorobutadiene	ND	0.265	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	0.265	mg/kg

Sample Results

WD-2@10'

Collect Date	10/19/2015 10:55	**GCAL ID**	21510210902
Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B (Continued)

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	50	10/22/2015 19:29	JCK	570783

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	0.531	mg/kg
74-88-4	Methyl iodide	ND	0.265	mg/kg
75-09-2	Methylene chloride	ND	0.531	mg/kg
91-20-3	Naphthalene	ND	0.265	mg/kg
104-51-8	n-Butylbenzene	ND	0.265	mg/kg
103-65-1	n-Propylbenzene	ND	0.265	mg/kg
95-47-6	o-Xylene	ND	0.265	mg/kg
135-98-8	sec-Butylbenzene	ND	0.265	mg/kg
100-42-5	Styrene	ND	0.265	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	0.265	mg/kg
98-06-6	tert-Butylbenzene	ND	0.265	mg/kg
127-18-4	**Tetrachloroethene**	**3.46**	**0.265**	**mg/kg**
108-88-3	Toluene	ND	0.265	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	0.265	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	0.265	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	0.265	mg/kg
79-01-6	Trichloroethene	ND	0.265	mg/kg
75-69-4	Trichlorofluoromethane	ND	0.265	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	0.265	mg/kg
75-01-4	Vinyl chloride	ND	0.265	mg/kg
1330-20-7	Xylene (total)	ND	0.796	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2.24	2.49	ug/Kg	111	62 - 127
1868-53-7	Dibromofluoromethane	2.24	2.34	ug/Kg	104	65 - 130
2037-26-5	Toluene d8	2.24	2.17	ug/Kg	97	71 - 132
17060-07-0	1,2-Dichloroethane-d4	2.24	2.35	ug/Kg	105	62 - 125

WD-4@10'

Collect Date	10/19/2015 11:55	**GCAL ID**	21510210903
Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1000	10/22/2015 21:30	JCK	570783

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	3.93	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	3.93	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.93	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	3.93	mg/kg
75-34-3	1,1-Dichloroethane	ND	3.93	mg/kg
75-35-4	1,1-Dichloroethene	ND	3.93	mg/kg

Sample Results

WD-4@10'	**Collect Date**	10/19/2015 11:55	**GCAL ID**	21510210903
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B (Continued)

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1000	10/22/2015 21:30	JCK	570783

CAS#	Parameter	Result	LOQ	Units
563-58-6	1,1-Dichloropropene	ND	3.93	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	3.93	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	3.93	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	3.93	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.93	mg/kg
106-93-4	1,2-Dibromoethane	ND	3.93	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	3.93	mg/kg
107-06-2	1,2-Dichloroethane	ND	3.93	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	7.87	mg/kg
78-87-5	1,2-Dichloropropane	ND	3.93	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	3.93	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	3.93	mg/kg
142-28-9	1,3-Dichloropropane	ND	3.93	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	3.93	mg/kg
594-20-7	2,2-Dichloropropane	ND	3.93	mg/kg
78-93-3	2-Butanone	ND	3.93	mg/kg
95-49-8	2-Chlorotoluene	ND	3.93	mg/kg
591-78-6	2-Hexanone	ND	3.93	mg/kg
106-43-4	4-Chlorotoluene	ND	3.93	mg/kg
99-87-6	4-Isopropyltoluene	ND	3.93	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	3.93	mg/kg
67-64-1	Acetone	ND	19.7	mg/kg
71-43-2	Benzene	ND	3.93	mg/kg
108-86-1	Bromobenzene	ND	3.93	mg/kg
74-97-5	Bromochloromethane	ND	3.93	mg/kg
75-27-4	Bromodichloromethane	ND	3.93	mg/kg
75-25-2	Bromoform	ND	3.93	mg/kg
74-83-9	Bromomethane	ND	3.93	mg/kg
75-15-0	Carbon disulfide	ND	3.93	mg/kg
56-23-5	Carbon tetrachloride	ND	3.93	mg/kg
108-90-7	Chlorobenzene	ND	3.93	mg/kg
75-00-3	Chloroethane	ND	3.93	mg/kg
67-66-3	Chloroform	ND	3.93	mg/kg
74-87-3	Chloromethane	ND	3.93	mg/kg
156-59-2	**cis-1,2-Dichloroethene**	**7.08**	**3.93**	**mg/kg**
10061-01-5	cis-1,3-Dichloropropene	ND	3.93	mg/kg
124-48-1	Dibromochloromethane	ND	3.93	mg/kg
74-95-3	Dibromomethane	ND	3.93	mg/kg
75-71-8	Dichlorodifluoromethane	ND	3.93	mg/kg
100-41-4	Ethylbenzene	ND	3.93	mg/kg
87-68-3	Hexachlorobutadiene	ND	3.93	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	3.93	mg/kg
136777-61-2	m,p-Xylene	ND	7.87	mg/kg
74-88-4	Methyl iodide	ND	3.93	mg/kg
75-09-2	Methylene chloride	ND	7.87	mg/kg
91-20-3	Naphthalene	ND	3.93	mg/kg
104-51-8	n-Butylbenzene	ND	3.93	mg/kg
103-65-1	n-Propylbenzene	ND	3.93	mg/kg

Sample Results

WD-4@10'	**Collect Date**	10/19/2015 11:55	**GCAL ID**	21510210903
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B (Continued)

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1000	10/22/2015 21:30	JCK	570783

CAS#	Parameter	Result	LOQ	Units
95-47-6	o-Xylene	ND	3.93	mg/kg
135-98-8	sec-Butylbenzene	ND	3.93	mg/kg
100-42-5	Styrene	ND	3.93	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	3.93	mg/kg
98-06-6	tert-Butylbenzene	ND	3.93	mg/kg
108-88-3	Toluene	ND	3.93	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	3.93	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	3.93	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	3.93	mg/kg
79-01-6	**Trichloroethene**	**6.12**	**3.93**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	3.93	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	3.93	mg/kg
75-01-4	Vinyl chloride	ND	3.93	mg/kg
1330-20-7	Xylene (total)	ND	11.8	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	33.10	32	ug/Kg	97	62 - 127
1868-53-7	Dibromofluoromethane	33.10	34.3	ug/Kg	104	65 - 130
2037-26-5	Toluene d8	33.10	32.9	ug/Kg	100	71 - 132
17060-07-0	1,2-Dichloroethane-d4	33.10	36.1	ug/Kg	109	62 - 125

EPA 8260B

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	10/22/2015 19:49	JCK	570783

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**317**	**39.3**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	331	288	ug/Kg	87	62 - 127
1868-53-7	Dibromofluoromethane	331	357	ug/Kg	108	65 - 130
2037-26-5	Toluene d8	331	317	ug/Kg	96	71 - 132
17060-07-0	1,2-Dichloroethane-d4	331	349	ug/Kg	106	62 - 125

Sample Results

WD-8@5'	**Collect Date**	10/19/2015 09:56	**GCAL ID**	21510210904
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	200	10/22/2015 21:50	JCK	570783

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.996	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	0.996	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.996	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	0.996	mg/kg
75-34-3	1,1-Dichloroethane	ND	0.996	mg/kg
75-35-4	1,1-Dichloroethene	ND	0.996	mg/kg
563-58-6	1,1-Dichloropropene	ND	0.996	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	0.996	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	0.996	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	0.996	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.996	mg/kg
106-93-4	1,2-Dibromoethane	ND	0.996	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	0.996	mg/kg
107-06-2	1,2-Dichloroethane	ND	0.996	mg/kg
540-59-0	**1,2-Dichloroethene(Total)**	**8.74**	**1.99**	**mg/kg**
78-87-5	1,2-Dichloropropane	ND	0.996	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	0.996	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	0.996	mg/kg
142-28-9	1,3-Dichloropropane	ND	0.996	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	0.996	mg/kg
594-20-7	2,2-Dichloropropane	ND	0.996	mg/kg
78-93-3	2-Butanone	ND	0.996	mg/kg
95-49-8	2-Chlorotoluene	ND	0.996	mg/kg
591-78-6	2-Hexanone	ND	0.996	mg/kg
106-43-4	4-Chlorotoluene	ND	0.996	mg/kg
99-87-6	4-Isopropyltoluene	ND	0.996	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	0.996	mg/kg
67-64-1	Acetone	ND	4.98	mg/kg
71-43-2	Benzene	ND	0.996	mg/kg
108-86-1	Bromobenzene	ND	0.996	mg/kg
74-97-5	Bromochloromethane	ND	0.996	mg/kg
75-27-4	Bromodichloromethane	ND	0.996	mg/kg
75-25-2	Bromoform	ND	0.996	mg/kg
74-83-9	Bromomethane	ND	0.996	mg/kg
75-15-0	Carbon disulfide	ND	0.996	mg/kg
56-23-5	Carbon tetrachloride	ND	0.996	mg/kg
108-90-7	Chlorobenzene	ND	0.996	mg/kg
75-00-3	Chloroethane	ND	0.996	mg/kg
67-66-3	Chloroform	ND	0.996	mg/kg
74-87-3	Chloromethane	ND	0.996	mg/kg
156-59-2	**cis-1,2-Dichloroethene**	**8.74**	**0.996**	**mg/kg**
10061-01-5	cis-1,3-Dichloropropene	ND	0.996	mg/kg
124-48-1	Dibromochloromethane	ND	0.996	mg/kg
74-95-3	Dibromomethane	ND	0.996	mg/kg
75-71-8	Dichlorodifluoromethane	ND	0.996	mg/kg
100-41-4	Ethylbenzene	ND	0.996	mg/kg
87-68-3	Hexachlorobutadiene	ND	0.996	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	0.996	mg/kg

Sample Results

WD-8@5'	**Collect Date**	10/19/2015 09:56	**GCAL ID**	21510210904
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B (Continued)

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	200	10/22/2015 21:50	JCK	570783

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	1.99	mg/kg
74-88-4	Methyl iodide	ND	0.996	mg/kg
75-09-2	Methylene chloride	ND	1.99	mg/kg
91-20-3	Naphthalene	ND	0.996	mg/kg
104-51-8	n-Butylbenzene	ND	0.996	mg/kg
103-65-1	n-Propylbenzene	ND	0.996	mg/kg
95-47-6	o-Xylene	ND	0.996	mg/kg
135-98-8	sec-Butylbenzene	ND	0.996	mg/kg
100-42-5	Styrene	ND	0.996	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	0.996	mg/kg
98-06-6	tert-Butylbenzene	ND	0.996	mg/kg
108-88-3	Toluene	ND	0.996	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	0.996	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	0.996	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	0.996	mg/kg
79-01-6	**Trichloroethene**	**1.86**	**0.996**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	0.996	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	0.996	mg/kg
75-01-4	Vinyl chloride	ND	0.996	mg/kg
1330-20-7	Xylene (total)	ND	2.99	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	7.97	7.29	ug/Kg	91	62 - 127
1868-53-7	Dibromofluoromethane	7.97	8.51	ug/Kg	107	65 - 130
2037-26-5	Toluene d8	7.97	8.03	ug/Kg	101	71 - 132
17060-07-0	1,2-Dichloroethane-d4	7.97	8.72	ug/Kg	109	62 - 125

EPA 8260B

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	2000	10/22/2015 20:09	JCK	570783

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**42.7**	**9.96**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	79.70	72.2	ug/Kg	91	62 - 127
1868-53-7	Dibromofluoromethane	79.70	83.7	ug/Kg	105	65 - 130
2037-26-5	Toluene d8	79.70	79.9	ug/Kg	100	71 - 132
17060-07-0	1,2-Dichloroethane-d4	79.70	83.3	ug/Kg	104	62 - 125

Sample Results

WD-11@10'	**Collect Date**	10/19/2015 11:10	**GCAL ID**	21510210905
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1000	10/23/2015 16:30	CLH	570842

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	4.21	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	4.21	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.21	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	4.21	mg/kg
75-34-3	1,1-Dichloroethane	ND	4.21	mg/kg
75-35-4	1,1-Dichloroethene	ND	4.21	mg/kg
563-58-6	1,1-Dichloropropene	ND	4.21	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	4.21	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	4.21	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	4.21	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.21	mg/kg
106-93-4	1,2-Dibromoethane	ND	4.21	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	4.21	mg/kg
107-06-2	1,2-Dichloroethane	ND	4.21	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	8.43	mg/kg
78-87-5	1,2-Dichloropropane	ND	4.21	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	4.21	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	4.21	mg/kg
142-28-9	1,3-Dichloropropane	ND	4.21	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	4.21	mg/kg
594-20-7	2,2-Dichloropropane	ND	4.21	mg/kg
78-93-3	2-Butanone	ND	4.21	mg/kg
95-49-8	2-Chlorotoluene	ND	4.21	mg/kg
591-78-6	2-Hexanone	ND	4.21	mg/kg
106-43-4	4-Chlorotoluene	ND	4.21	mg/kg
99-87-6	4-Isopropyltoluene	ND	4.21	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	4.21	mg/kg
67-64-1	Acetone	ND	21.1	mg/kg
71-43-2	Benzene	ND	4.21	mg/kg
108-86-1	Bromobenzene	ND	4.21	mg/kg
74-97-5	Bromochloromethane	ND	4.21	mg/kg
75-27-4	Bromodichloromethane	ND	4.21	mg/kg
75-25-2	Bromoform	ND	4.21	mg/kg
74-83-9	Bromomethane	ND	4.21	mg/kg
75-15-0	Carbon disulfide	ND	4.21	mg/kg
56-23-5	Carbon tetrachloride	ND	4.21	mg/kg
108-90-7	Chlorobenzene	ND	4.21	mg/kg
75-00-3	Chloroethane	ND	4.21	mg/kg
67-66-3	Chloroform	ND	4.21	mg/kg
74-87-3	Chloromethane	ND	4.21	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	4.21	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	4.21	mg/kg
124-48-1	Dibromochloromethane	ND	4.21	mg/kg
74-95-3	Dibromomethane	ND	4.21	mg/kg
75-71-8	Dichlorodifluoromethane	ND	4.21	mg/kg
100-41-4	Ethylbenzene	ND	4.21	mg/kg
87-68-3	Hexachlorobutadiene	ND	4.21	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	4.21	mg/kg

Sample Results

WD-11@10'	**Collect Date**	10/19/2015 11:10	**GCAL ID**	21510210905
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1000	10/23/2015 16:30	CLH	570842

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	8.43	mg/kg
74-88-4	Methyl iodide	ND	4.21	mg/kg
75-09-2	Methylene chloride	ND	8.43	mg/kg
91-20-3	Naphthalene	ND	4.21	mg/kg
104-51-8	n-Butylbenzene	ND	4.21	mg/kg
103-65-1	n-Propylbenzene	ND	4.21	mg/kg
95-47-6	o-Xylene	ND	4.21	mg/kg
135-98-8	sec-Butylbenzene	ND	4.21	mg/kg
100-42-5	Styrene	ND	4.21	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	4.21	mg/kg
98-06-6	tert-Butylbenzene	ND	4.21	mg/kg
108-88-3	Toluene	ND	4.21	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	4.21	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	4.21	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.21	mg/kg
79-01-6	Trichloroethene	ND	4.21	mg/kg
75-69-4	Trichlorofluoromethane	ND	4.21	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	4.21	mg/kg
75-01-4	Vinyl chloride	ND	4.21	mg/kg
1330-20-7	Xylene (total)	ND	12.6	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	35.60	38	ug/Kg	107	62 - 127
1868-53-7	Dibromofluoromethane	35.60	33.8	ug/Kg	95	65 - 130
2037-26-5	Toluene d8	35.60	38	ug/Kg	107	71 - 132
17060-07-0	1,2-Dichloroethane-d4	35.60	32.7	ug/Kg	92	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	10/23/2015 14:14	LBH	570842

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**381**	**42.1**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	356	373	ug/Kg	105	62 - 127
1868-53-7	Dibromofluoromethane	356	340	ug/Kg	96	65 - 130
2037-26-5	Toluene d8	356	383	ug/Kg	108	71 - 132
17060-07-0	1,2-Dichloroethane-d4	356	318	ug/Kg	89	62 - 125

Sample Results

ADD-1@6'	**Collect Date**	10/19/2015 11:28	**GCAL ID**	21510210906
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100	10/23/2015 16:53	CLH	570842

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.476	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	0.476	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.476	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	0.476	mg/kg
75-34-3	1,1-Dichloroethane	ND	0.476	mg/kg
75-35-4	1,1-Dichloroethene	ND	0.476	mg/kg
563-58-6	1,1-Dichloropropene	ND	0.476	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	0.476	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	0.476	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	0.476	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.476	mg/kg
106-93-4	1,2-Dibromoethane	ND	0.476	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	0.476	mg/kg
107-06-2	1,2-Dichloroethane	ND	0.476	mg/kg
540-59-0	**1,2-Dichloroethene(Total)**	**9.05**	**0.952**	**mg/kg**
78-87-5	1,2-Dichloropropane	ND	0.476	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	0.476	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	0.476	mg/kg
142-28-9	1,3-Dichloropropane	ND	0.476	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	0.476	mg/kg
594-20-7	2,2-Dichloropropane	ND	0.476	mg/kg
78-93-3	2-Butanone	ND	0.476	mg/kg
95-49-8	2-Chlorotoluene	ND	0.476	mg/kg
591-78-6	2-Hexanone	ND	0.476	mg/kg
106-43-4	4-Chlorotoluene	ND	0.476	mg/kg
99-87-6	4-Isopropyltoluene	ND	0.476	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	0.476	mg/kg
67-64-1	Acetone	ND	2.38	mg/kg
71-43-2	Benzene	ND	0.476	mg/kg
108-86-1	Bromobenzene	ND	0.476	mg/kg
74-97-5	Bromochloromethane	ND	0.476	mg/kg
75-27-4	Bromodichloromethane	ND	0.476	mg/kg
75-25-2	Bromoform	ND	0.476	mg/kg
74-83-9	Bromomethane	ND	0.476	mg/kg
75-15-0	Carbon disulfide	ND	0.476	mg/kg
56-23-5	Carbon tetrachloride	ND	0.476	mg/kg
108-90-7	Chlorobenzene	ND	0.476	mg/kg
75-00-3	Chloroethane	ND	0.476	mg/kg
67-66-3	Chloroform	ND	0.476	mg/kg
74-87-3	Chloromethane	ND	0.476	mg/kg
156-59-2	**cis-1,2-Dichloroethene**	**9.05**	**0.476**	**mg/kg**
10061-01-5	cis-1,3-Dichloropropene	ND	0.476	mg/kg
124-48-1	Dibromochloromethane	ND	0.476	mg/kg
74-95-3	Dibromomethane	ND	0.476	mg/kg
75-71-8	Dichlorodifluoromethane	ND	0.476	mg/kg
100-41-4	Ethylbenzene	ND	0.476	mg/kg
87-68-3	Hexachlorobutadiene	ND	0.476	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	0.476	mg/kg

Sample Results

ADD-1@6'	**Collect Date**	10/19/2015 11:28	**GCAL ID**	21510210906
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100	10/23/2015 16:53	CLH	570842

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	0.952	mg/kg
74-88-4	Methyl iodide	ND	0.476	mg/kg
75-09-2	Methylene chloride	ND	0.952	mg/kg
91-20-3	Naphthalene	ND	0.476	mg/kg
104-51-8	n-Butylbenzene	ND	0.476	mg/kg
103-65-1	n-Propylbenzene	ND	0.476	mg/kg
95-47-6	o-Xylene	ND	0.476	mg/kg
135-98-8	sec-Butylbenzene	ND	0.476	mg/kg
100-42-5	Styrene	ND	0.476	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	0.476	mg/kg
98-06-6	tert-Butylbenzene	ND	0.476	mg/kg
108-88-3	Toluene	ND	0.476	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	0.476	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	0.476	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	0.476	mg/kg
79-01-6	**Trichloroethene**	**2.19**	**0.476**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	0.476	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	0.476	mg/kg
75-01-4	Vinyl chloride	ND	0.476	mg/kg
1330-20-7	Xylene (total)	ND	1.43	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	3.98	4.2	ug/Kg	106	62 - 127
1868-53-7	Dibromofluoromethane	3.98	3.81	ug/Kg	96	65 - 130
2037-26-5	Toluene d8	3.98	4.1	ug/Kg	103	71 - 132
17060-07-0	1,2-Dichloroethane-d4	3.98	3.76	ug/Kg	94	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1000	10/23/2015 14:36	LBH	570842

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**30.4**	**4.76**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	39.80	41.8	ug/Kg	105	62 - 127
1868-53-7	Dibromofluoromethane	39.80	38.2	ug/Kg	96	65 - 130
2037-26-5	Toluene d8	39.80	41.6	ug/Kg	104	71 - 132
17060-07-0	1,2-Dichloroethane-d4	39.80	37.4	ug/Kg	94	62 - 125

Sample Results

ADD-1@10'	**Collect Date**	10/19/2015 11:28	**GCAL ID**	21510210907
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100	10/23/2015 17:16	CLH	570842

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.500	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	0.500	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.500	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	0.500	mg/kg
75-34-3	1,1-Dichloroethane	ND	0.500	mg/kg
75-35-4	1,1-Dichloroethene	ND	0.500	mg/kg
563-58-6	1,1-Dichloropropene	ND	0.500	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	0.500	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	0.500	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	0.500	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.500	mg/kg
106-93-4	1,2-Dibromoethane	ND	0.500	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	0.500	mg/kg
107-06-2	1,2-Dichloroethane	ND	0.500	mg/kg
540-59-0	**1,2-Dichloroethene(Total)**	**4.19**	**1.000**	**mg/kg**
78-87-5	1,2-Dichloropropane	ND	0.500	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	0.500	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	0.500	mg/kg
142-28-9	1,3-Dichloropropane	ND	0.500	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	0.500	mg/kg
594-20-7	2,2-Dichloropropane	ND	0.500	mg/kg
78-93-3	2-Butanone	ND	0.500	mg/kg
95-49-8	2-Chlorotoluene	ND	0.500	mg/kg
591-78-6	2-Hexanone	ND	0.500	mg/kg
106-43-4	4-Chlorotoluene	ND	0.500	mg/kg
99-87-6	4-Isopropyltoluene	ND	0.500	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	0.500	mg/kg
67-64-1	Acetone	ND	2.50	mg/kg
71-43-2	Benzene	ND	0.500	mg/kg
108-86-1	Bromobenzene	ND	0.500	mg/kg
74-97-5	Bromochloromethane	ND	0.500	mg/kg
75-27-4	Bromodichloromethane	ND	0.500	mg/kg
75-25-2	Bromoform	ND	0.500	mg/kg
74-83-9	Bromomethane	ND	0.500	mg/kg
75-15-0	Carbon disulfide	ND	0.500	mg/kg
56-23-5	Carbon tetrachloride	ND	0.500	mg/kg
108-90-7	Chlorobenzene	ND	0.500	mg/kg
75-00-3	Chloroethane	ND	0.500	mg/kg
67-66-3	Chloroform	ND	0.500	mg/kg
74-87-3	Chloromethane	ND	0.500	mg/kg
156-59-2	**cis-1,2-Dichloroethene**	**4.05**	**0.500**	**mg/kg**
10061-01-5	cis-1,3-Dichloropropene	ND	0.500	mg/kg
124-48-1	Dibromochloromethane	ND	0.500	mg/kg
74-95-3	Dibromomethane	ND	0.500	mg/kg
75-71-8	Dichlorodifluoromethane	ND	0.500	mg/kg
100-41-4	Ethylbenzene	ND	0.500	mg/kg
87-68-3	Hexachlorobutadiene	ND	0.500	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	0.500	mg/kg

Sample Results

ADD-1@10'	**Collect Date**	10/19/2015 11:28	**GCAL ID**	21510210907
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100	10/23/2015 17:16	CLH	570842

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	1.000	mg/kg
74-88-4	Methyl iodide	ND	0.500	mg/kg
75-09-2	Methylene chloride	ND	1.000	mg/kg
91-20-3	Naphthalene	ND	0.500	mg/kg
104-51-8	n-Butylbenzene	ND	0.500	mg/kg
103-65-1	n-Propylbenzene	ND	0.500	mg/kg
95-47-6	o-Xylene	ND	0.500	mg/kg
135-98-8	sec-Butylbenzene	ND	0.500	mg/kg
100-42-5	Styrene	ND	0.500	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	0.500	mg/kg
98-06-6	tert-Butylbenzene	ND	0.500	mg/kg
108-88-3	Toluene	ND	0.500	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	0.500	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	0.500	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	0.500	mg/kg
79-01-6	**Trichloroethene**	**5.36**	**0.500**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	0.500	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	0.500	mg/kg
75-01-4	Vinyl chloride	ND	0.500	mg/kg
1330-20-7	Xylene (total)	ND	1.50	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	4.27	4.55	ug/Kg	106	62 - 127
1868-53-7	Dibromofluoromethane	4.27	4.31	ug/Kg	101	65 - 130
2037-26-5	Toluene d8	4.27	4.48	ug/Kg	105	71 - 132
17060-07-0	1,2-Dichloroethane-d4	4.27	4.07	ug/Kg	95	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1000	10/23/2015 14:59	CLH	570842

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**54.9**	**5.00**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	42.70	43	ug/Kg	101	62 - 127
1868-53-7	Dibromofluoromethane	42.70	41.4	ug/Kg	97	65 - 130
2037-26-5	Toluene d8	42.70	43.7	ug/Kg	102	71 - 132
17060-07-0	1,2-Dichloroethane-d4	42.70	40.3	ug/Kg	94	62 - 125

Sample Results

ADD-2@5'

Collect Date	10/19/2015 12:12	**GCAL ID**	21510210908
Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	10/23/2015 17:39	CLH	570842

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	44.9	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	44.9	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	44.9	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	44.9	mg/kg
75-34-3	1,1-Dichloroethane	ND	44.9	mg/kg
75-35-4	1,1-Dichloroethene	ND	44.9	mg/kg
563-58-6	1,1-Dichloropropene	ND	44.9	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	44.9	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	44.9	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	44.9	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	44.9	mg/kg
106-93-4	1,2-Dibromoethane	ND	44.9	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	44.9	mg/kg
107-06-2	1,2-Dichloroethane	ND	44.9	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	89.8	mg/kg
78-87-5	1,2-Dichloropropane	ND	44.9	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	44.9	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	44.9	mg/kg
142-28-9	1,3-Dichloropropane	ND	44.9	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	44.9	mg/kg
594-20-7	2,2-Dichloropropane	ND	44.9	mg/kg
78-93-3	2-Butanone	ND	44.9	mg/kg
95-49-8	2-Chlorotoluene	ND	44.9	mg/kg
591-78-6	2-Hexanone	ND	44.9	mg/kg
106-43-4	4-Chlorotoluene	ND	44.9	mg/kg
99-87-6	4-Isopropyltoluene	ND	44.9	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	44.9	mg/kg
67-64-1	Acetone	ND	225	mg/kg
71-43-2	Benzene	ND	44.9	mg/kg
108-86-1	Bromobenzene	ND	44.9	mg/kg
74-97-5	Bromochloromethane	ND	44.9	mg/kg
75-27-4	Bromodichloromethane	ND	44.9	mg/kg
75-25-2	Bromoform	ND	44.9	mg/kg
74-83-9	Bromomethane	ND	44.9	mg/kg
75-15-0	Carbon disulfide	ND	44.9	mg/kg
56-23-5	Carbon tetrachloride	ND	44.9	mg/kg
108-90-7	Chlorobenzene	ND	44.9	mg/kg
75-00-3	Chloroethane	ND	44.9	mg/kg
67-66-3	Chloroform	ND	44.9	mg/kg
74-87-3	Chloromethane	ND	44.9	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	44.9	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	44.9	mg/kg
124-48-1	Dibromochloromethane	ND	44.9	mg/kg
74-95-3	Dibromomethane	ND	44.9	mg/kg
75-71-8	Dichlorodifluoromethane	ND	44.9	mg/kg
100-41-4	Ethylbenzene	ND	44.9	mg/kg
87-68-3	Hexachlorobutadiene	ND	44.9	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	44.9	mg/kg

Sample Results

ADD-2@5'

Collect Date	10/19/2015 12:12	**GCAL ID**	21510210908
Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B (Continued)

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	10/23/2015 17:39	CLH	570842

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	89.8	mg/kg
74-88-4	Methyl iodide	ND	44.9	mg/kg
75-09-2	Methylene chloride	ND	89.8	mg/kg
91-20-3	Naphthalene	ND	44.9	mg/kg
104-51-8	n-Butylbenzene	ND	44.9	mg/kg
103-65-1	n-Propylbenzene	ND	44.9	mg/kg
95-47-6	o-Xylene	ND	44.9	mg/kg
135-98-8	sec-Butylbenzene	ND	44.9	mg/kg
100-42-5	Styrene	ND	44.9	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	44.9	mg/kg
98-06-6	tert-Butylbenzene	ND	44.9	mg/kg
108-88-3	Toluene	ND	44.9	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	44.9	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	44.9	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	44.9	mg/kg
79-01-6	**Trichloroethene**	**48.7**	**44.9**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	44.9	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	44.9	mg/kg
75-01-4	Vinyl chloride	ND	44.9	mg/kg
1330-20-7	Xylene (total)	ND	135	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	375	388	ug/Kg	103	62 - 127
1868-53-7	Dibromofluoromethane	375	360	ug/Kg	96	65 - 130
2037-26-5	Toluene d8	375	382	ug/Kg	102	71 - 132
17060-07-0	1,2-Dichloroethane-d4	375	350	ug/Kg	93	62 - 125

EPA 8260B

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100000	10/23/2015 15:22	CLH	570842

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**3100**	**449**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	3750	3880	ug/Kg	103	62 - 127
1868-53-7	Dibromofluoromethane	3750	3490	ug/Kg	93	65 - 130
2037-26-5	Toluene d8	3750	3900	ug/Kg	104	71 - 132
17060-07-0	1,2-Dichloroethane-d4	3750	3460	ug/Kg	92	62 - 125

Sample Results

ADD-2@10'	**Collect Date**	10/19/2015 12:12	**GCAL ID**	21510210909
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	500	10/23/2015 18:01	CLH	570842

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.68	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	2.68	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.68	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	2.68	mg/kg
75-34-3	1,1-Dichloroethane	ND	2.68	mg/kg
75-35-4	1,1-Dichloroethene	ND	2.68	mg/kg
563-58-6	1,1-Dichloropropene	ND	2.68	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	2.68	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	2.68	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	2.68	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.68	mg/kg
106-93-4	1,2-Dibromoethane	ND	2.68	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	2.68	mg/kg
107-06-2	1,2-Dichloroethane	ND	2.68	mg/kg
540-59-0	**1,2-Dichloroethene(Total)**	**6.01**	**5.35**	**mg/kg**
78-87-5	1,2-Dichloropropane	ND	2.68	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	2.68	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	2.68	mg/kg
142-28-9	1,3-Dichloropropane	ND	2.68	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	2.68	mg/kg
594-20-7	2,2-Dichloropropane	ND	2.68	mg/kg
78-93-3	2-Butanone	ND	2.68	mg/kg
95-49-8	2-Chlorotoluene	ND	2.68	mg/kg
591-78-6	2-Hexanone	ND	2.68	mg/kg
106-43-4	4-Chlorotoluene	ND	2.68	mg/kg
99-87-6	4-Isopropyltoluene	ND	2.68	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	2.68	mg/kg
67-64-1	Acetone	ND	13.4	mg/kg
71-43-2	Benzene	ND	2.68	mg/kg
108-86-1	Bromobenzene	ND	2.68	mg/kg
74-97-5	Bromochloromethane	ND	2.68	mg/kg
75-27-4	Bromodichloromethane	ND	2.68	mg/kg
75-25-2	Bromoform	ND	2.68	mg/kg
74-83-9	Bromomethane	ND	2.68	mg/kg
75-15-0	Carbon disulfide	ND	2.68	mg/kg
56-23-5	Carbon tetrachloride	ND	2.68	mg/kg
108-90-7	Chlorobenzene	ND	2.68	mg/kg
75-00-3	Chloroethane	ND	2.68	mg/kg
67-66-3	Chloroform	ND	2.68	mg/kg
74-87-3	Chloromethane	ND	2.68	mg/kg
156-59-2	**cis-1,2-Dichloroethene**	**6.01**	**2.68**	**mg/kg**
10061-01-5	cis-1,3-Dichloropropene	ND	2.68	mg/kg
124-48-1	Dibromochloromethane	ND	2.68	mg/kg
74-95-3	Dibromomethane	ND	2.68	mg/kg
75-71-8	Dichlorodifluoromethane	ND	2.68	mg/kg
100-41-4	Ethylbenzene	ND	2.68	mg/kg
87-68-3	Hexachlorobutadiene	ND	2.68	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	2.68	mg/kg

Sample Results

ADD-2@10'	**Collect Date**	10/19/2015 12:12	**GCAL ID**	21510210909
	Receive Date	10/21/2015 10:11	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	500	10/23/2015 18:01	CLH	570842

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	5.35	mg/kg
74-88-4	Methyl iodide	ND	2.68	mg/kg
75-09-2	Methylene chloride	ND	5.35	mg/kg
91-20-3	Naphthalene	ND	2.68	mg/kg
104-51-8	n-Butylbenzene	ND	2.68	mg/kg
103-65-1	n-Propylbenzene	ND	2.68	mg/kg
95-47-6	o-Xylene	ND	2.68	mg/kg
135-98-8	sec-Butylbenzene	ND	2.68	mg/kg
100-42-5	Styrene	ND	2.68	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	2.68	mg/kg
98-06-6	tert-Butylbenzene	ND	2.68	mg/kg
108-88-3	Toluene	ND	2.68	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	2.68	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	2.68	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.68	mg/kg
79-01-6	**Trichloroethene**	**6.26**	**2.68**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	2.68	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	2.68	mg/kg
75-01-4	Vinyl chloride	ND	2.68	mg/kg
1330-20-7	Xylene (total)	ND	8.03	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	22.20	23.4	ug/Kg	105	62 - 127
1868-53-7	Dibromofluoromethane	22.20	22	ug/Kg	99	65 - 130
2037-26-5	Toluene d8	22.20	22.3	ug/Kg	100	71 - 132
17060-07-0	1,2-Dichloroethane-d4	22.20	22.3	ug/Kg	100	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	10/23/2015 15:45	CLH	570842

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**198**	**53.5**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	444	468	ug/Kg	105	62 - 127
1868-53-7	Dibromofluoromethane	444	428	ug/Kg	96	65 - 130
2037-26-5	Toluene d8	444	475	ug/Kg	107	71 - 132
17060-07-0	1,2-Dichloroethane-d4	444	406	ug/Kg	91	62 - 125

Sample Results

TRIP BLANK	**Collect Date**	10/19/2015 00:01	**GCAL ID**	21510210910
	Receive Date	10/21/2015 10:11	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/21/2015 16:45	JCK	570694

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L

Sample Results

TRIP BLANK

Collect Date	10/19/2015 00:01	**GCAL ID**	21510210910
Receive Date	10/21/2015 10:11	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/21/2015 16:45	JCK	570694

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	5.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	53.6	ug/L	107	78 - 130
1868-53-7	Dibromofluoromethane	50	49	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	53.4	ug/L	107	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.9	ug/L	96	71 - 127

GC/MS Volatiles QC Summary

Analytical Batch 570783	Client ID	MB570783		LCS570783				LCSD570783				
	GCAL ID	1501661		1501662				1501663				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/22/2015 12:35		10/22/2015 10:53				10/22/2015 11:14				
	Matrix	Solid		Solid				Solid				
EPA 8260B		Units Result	mg/kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	0.250	2.50	2.46	98	77 - 122	2.50	2.51	100	2	30
1,1,1-Trichloroethane	71-55-6	ND	0.250	2.50	2.58	103	70 - 130	2.50	2.51	100	3	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.250	2.50	2.54	102	66 - 129	2.50	2.62	105	3	30
1,1,2-Trichloroethane	79-00-5	ND	0.250	2.50	2.31	92	74 - 120	2.50	2.38	95	3	30
1,1-Dichloroethane	75-34-3	ND	0.250	2.50	2.35	94	71 - 126	2.50	2.39	96	2	30
1,1-Dichloroethene	75-35-4	ND	0.250	2.50	2.34	94	68 - 129	2.50	2.38	95	2	20
1,1-Dichloropropene	563-58-6	ND	0.250	2.50	2.57	103	70 - 138	2.50	2.53	101	2	30
1,2,3-Trichloropropane	96-18-4	ND	0.250	2.50	2.17	87	63 - 132	2.50	2.27	91	5	30
1,2,4-Trichlorobenzene	120-82-1	ND	0.250	2.50	1.95	78	64 - 135	2.50	2.08	83	6	30
1,2,4-Trimethylbenzene	95-63-6	ND	0.250	2.50	2.51	100	75 - 130	2.50	2.55	102	2	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	0.250	2.50	2.05	82	60 - 123	2.50	2.40	96	16	30
1,2-Dibromoethane	106-93-4	ND	0.250	2.50	2.47	99	74 - 122	2.50	2.50	100	1	30
1,2-Dichlorobenzene	95-50-1	ND	0.250	2.50	2.48	99	76 - 125	2.50	2.47	99	0	30
1,2-Dichloroethane	107-06-2	ND	0.250	2.50	2.53	101	68 - 126	2.50	2.55	102	1	30
1,2-Dichloroethene(Total)	540-59-0	ND	0.500	5.00	4.73	95	72 - 129	5.00	4.84	97	2	30
1,2-Dichloropropane	78-87-5	ND	0.250	2.50	2.55	102	72 - 129	2.50	2.53	101	1	30
1,3,5-Trimethylbenzene	108-67-8	ND	0.250	2.50	2.41	96	74 - 136	2.50	2.43	97	1	30
1,3-Dichlorobenzene	541-73-1	ND	0.250	2.50	2.43	97	77 - 127	2.50	2.41	96	1	30
1,3-Dichloropropane	142-28-9	ND	0.250	2.50	2.38	95	77 - 121	2.50	2.45	98	3	30
1,4-Dichlorobenzene	106-46-7	ND	0.250	2.50	2.34	94	74 - 123	2.50	2.36	94	1	30
2,2-Dichloropropane	594-20-7	ND	0.250	2.50	2.53	101	74 - 129	2.50	2.58	103	2	30
2-Butanone	78-93-3	ND	0.250	2.50	2.51	100	47 - 142	2.50	2.33	93	7	30
2-Chlorotoluene	95-49-8	ND	0.250	2.50	2.30	92	75 - 132	2.50	2.32	93	1	30
2-Hexanone	591-78-6	ND	0.250	2.50	2.34	94	47 - 137	2.50	2.55	102	9	30
4-Chlorotoluene	106-43-4	ND	0.250	2.50	2.40	96	74 - 133	2.50	2.37	95	1	30
4-Isopropyltoluene	99-87-6	ND	0.250	2.50	2.58	103	71 - 136	2.50	2.56	102	1	30
4-Methyl-2-pentanone	108-10-1	ND	0.250	2.50	2.44	98	52 - 136	2.50	2.63	105	7	30
Acetone	67-64-1	ND	1.25	2.50	2.08	83	38 - 152	2.50	3.20	128	**42***	30
Benzene	71-43-2	ND	0.250	2.50	2.52	101	73 - 128	2.50	2.47	99	2	20
Bromobenzene	108-86-1	ND	0.250	2.50	2.51	100	73 - 124	2.50	2.58	103	3	30
Bromochloromethane	74-97-5	ND	0.250	2.50	2.68	107	73 - 127	2.50	2.62	105	2	30
Bromodichloromethane	75-27-4	ND	0.250	2.50	2.77	111	74 - 126	2.50	2.73	109	1	30
Bromoform	75-25-2	ND	0.250	2.50	2.48	99	67 - 122	2.50	2.55	102	3	30
Bromomethane	74-83-9	ND	0.250	2.50	2.16	86	48 - 139	2.50	2.34	94	8	30
Carbon disulfide	75-15-0	ND	0.250	2.50	2.35	94	68 - 133	2.50	2.50	100	6	30
Carbon tetrachloride	56-23-5	ND	0.250	2.50	2.40	96	71 - 133	2.50	2.43	97	1	30
Chlorobenzene	108-90-7	ND	0.250	2.50	2.46	98	75 - 121	2.50	2.39	96	3	20
Chloroethane	75-00-3	ND	0.250	2.50	2.51	100	57 - 144	2.50	2.65	106	5	30
Chloroform	67-66-3	ND	0.250	2.50	2.50	100	74 - 124	2.50	2.51	100	0	30
Chloromethane	74-87-3	ND	0.250	2.50	2.33	93	61 - 130	2.50	2.48	99	6	30
cis-1,2-Dichloroethene	156-59-2	ND	0.250	2.50	2.44	98	72 - 130	2.50	2.53	101	4	30
cis-1,3-Dichloropropene	10061-01-5	ND	0.250	2.50	2.76	110	72 - 129	2.50	2.72	109	1	30
Dibromochloromethane	124-48-1	ND	0.250	2.50	2.61	104	74 - 122	2.50	2.56	102	2	30
Dibromomethane	74-95-3	ND	0.250	2.50	2.52	101	72 - 125	2.50	2.56	102	2	30
Dichlorodifluoromethane	75-71-8	ND	0.250	2.50	2.42	97	59 - 138	2.50	2.37	95	2	30
Ethylbenzene	100-41-4	ND	0.250	2.50	2.51	100	74 - 130	2.50	2.42	97	4	30
Hexachlorobutadiene	87-68-3	ND	0.250	2.50	2.23	89	71 - 140	2.50	2.28	91	2	30
Isopropylbenzene (Cumene)	98-82-8	ND	0.250	2.50	2.63	105	74 - 125	2.50	2.55	102	3	30
m,p-Xylene	136777-61-2	ND	0.500	5.00	5.10	102	72 - 128	5.00	5.04	101	1	30
Methyl iodide	74-88-4	ND	0.250	2.50	2.18	87	54 - 140	2.50	2.32	93	6	30
Methylene chloride	75-09-2	ND	0.500	2.50	2.31	92	66 - 130	2.50	2.42	97	5	30
Naphthalene	91-20-3	ND	0.250	2.50	1.82	73	54 - 132	2.50	2.13	85	16	35
n-Butylbenzene	104-51-8	ND	0.250	2.50	2.39	96	68 - 144	2.50	2.36	94	1	30
n-Propylbenzene	103-65-1	ND	0.250	2.50	2.27	91	73 - 137	2.50	2.27	91	0	30
o-Xylene	95-47-6	ND	0.250	2.50	2.59	104	69 - 133	2.50	2.48	99	4	30
sec-Butylbenzene	135-98-8	ND	0.250	2.50	2.42	97	72 - 141	2.50	2.42	97	0	30
Styrene	100-42-5	ND	0.250	2.50	2.70	108	72 - 128	2.50	2.65	106	2	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	0.250	2.50	2.46	98	69 - 126	2.50	2.65	106	7	30

GC/MS Volatiles QC Summary

Analytical Batch 570783	Client ID	MB570783		LCS570783				LCSD570783				
	GCAL ID	1501661		1501662				1501663				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/22/2015 12:35		10/22/2015 10:53				10/22/2015 11:14				
	Matrix	Solid		Solid				Solid				
EPA 8260B		Units Result	mg/kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
tert-Butylbenzene	98-06-6	ND	0.250	2.50	2.33	93	72 - 136	2.50	2.35	94	1	30
Tetrachloroethene	127-18-4	ND	0.250	2.50	2.38	95	70 - 127	2.50	2.35	94	1	30
Toluene	108-88-3	ND	0.250	2.50	2.45	98	74 - 121	2.50	2.37	95	3	20
trans-1,2-Dichloroethene	156-60-5	ND	0.250	2.50	2.30	92	67 - 134	2.50	2.32	93	1	30
trans-1,3-Dichloropropene	10061-02-6	ND	0.250	2.50	2.73	109	72 - 126	2.50	2.83	113	4	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	0.250	2.50	2.48	99	44 - 146	2.50	2.53	101	2	30
Trichloroethene	79-01-6	ND	0.250	2.50	2.55	102	78 - 127	2.50	2.53	101	1	20
Trichlorofluoromethane	75-69-4	ND	0.250	2.50	2.59	104	64 - 141	2.50	2.51	100	3	30
Trichlorotrifluoroethane	76-13-1	ND	0.250	2.50	2.30	92	66 - 139	2.50	2.36	94	3	30
Vinyl chloride	75-01-4	ND	0.250	2.50	2.27	91	67 - 131	2.50	2.33	93	3	30
Xylene (total)	1330-20-7	ND	0.750	7.50	7.69	103	71 - 129	7.50	7.52	100	2	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	2.69	108	2.5	2.58	103	62 - 125	2.5	2.72	109	5	NA
4-Bromofluorobenzene	460-00-4	2.57	103	2.5	2.61	104	62 - 127	2.5	2.53	101	3	NA
Dibromofluoromethane	1868-53-7	2.61	104	2.5	2.57	103	65 - 130	2.5	2.64	106	3	NA
Toluene d8	2037-26-5	2.42	97	2.5	2.42	97	71 - 132	2.5	2.45	98	1	NA

Analytical Batch 570842	Client ID	MB570842		LCS570842				LCSD570842				
	GCAL ID	1501876		1501877				1501878				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/23/2015 11:12		10/23/2015 08:56				10/23/2015 09:18				
	Matrix	Solid		Solid				Solid				
EPA 8260B		Units Result	mg/kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	0.250	2.50	2.34	94	77 - 122	2.50	2.35	94	0	30
1,1,1-Trichloroethane	71-55-6	ND	0.250	2.50	2.13	85	70 - 130	2.50	2.07	83	3	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.250	2.50	1.99	80	66 - 129	2.50	2.03	81	2	30
1,1,2-Trichloroethane	79-00-5	ND	0.250	2.50	2.18	87	74 - 120	2.50	2.22	89	2	30
1,1-Dichloroethane	75-34-3	ND	0.250	2.50	2.23	89	71 - 126	2.50	2.22	89	0	30
1,1-Dichloroethene	75-35-4	ND	0.250	2.50	2.39	96	68 - 129	2.50	2.41	96	1	20
1,1-Dichloropropene	563-58-6	ND	0.250	2.50	2.26	90	70 - 138	2.50	2.35	94	4	30
1,2,3-Trichloropropane	96-18-4	ND	0.250	2.50	1.99	80	63 - 132	2.50	2.00	80	1	30
1,2,4-Trichlorobenzene	120-82-1	ND	0.250	2.50	2.55	102	64 - 135	2.50	2.60	104	2	30
1,2,4-Trimethylbenzene	95-63-6	ND	0.250	2.50	2.31	92	75 - 130	2.50	2.36	94	2	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	0.250	2.50	2.23	89	60 - 123	2.50	2.45	98	9	30
1,2-Dibromoethane	106-93-4	ND	0.250	2.50	2.39	96	74 - 122	2.50	2.28	91	5	30
1,2-Dichlorobenzene	95-50-1	ND	0.250	2.50	2.23	89	76 - 125	2.50	2.28	91	2	30
1,2-Dichloroethane	107-06-2	ND	0.250	2.50	2.08	83	68 - 126	2.50	2.05	82	1	30
1,2-Dichloroethene(Total)	540-59-0	ND	0.500	5.00	4.79	96	72 - 129	5.00	4.77	95	0	30
1,2-Dichloropropane	78-87-5	ND	0.250	2.50	2.04	82	72 - 129	2.50	2.25	90	10	30
1,3,5-Trimethylbenzene	108-67-8	ND	0.250	2.50	2.27	91	74 - 136	2.50	2.21	88	3	30
1,3-Dichlorobenzene	541-73-1	ND	0.250	2.50	2.30	92	77 - 127	2.50	2.30	92	0	30
1,3-Dichloropropane	142-28-9	ND	0.250	2.50	2.30	92	77 - 121	2.50	2.31	92	0	30
1,4-Dichlorobenzene	106-46-7	ND	0.250	2.50	2.14	86	74 - 123	2.50	2.21	88	3	30
2,2-Dichloropropane	594-20-7	ND	0.250	2.50	2.33	93	74 - 129	2.50	2.20	88	6	30
2-Butanone	78-93-3	ND	0.250	2.50	2.01	80	47 - 142	2.50	1.96	78	3	30
2-Chlorotoluene	95-49-8	ND	0.250	2.50	2.15	86	75 - 132	2.50	2.12	85	1	30
2-Hexanone	591-78-6	ND	0.250	2.50	2.20	88	47 - 137	2.50	2.34	94	6	30
4-Chlorotoluene	106-43-4	ND	0.250	2.50	2.20	88	74 - 133	2.50	2.08	83	6	30
4-Isopropyltoluene	99-87-6	ND	0.250	2.50	2.29	92	71 - 136	2.50	2.32	93	1	30
4-Methyl-2-pentanone	108-10-1	ND	0.250	2.50	2.03	81	52 - 136	2.50	2.04	82	1	30
Acetone	67-64-1	ND	1.25	2.50	3.05	122	38 - 152	2.50	3.04	122	0	30
Benzene	71-43-2	ND	0.250	2.50	2.26	90	73 - 128	2.50	2.32	93	3	20
Bromobenzene	108-86-1	ND	0.250	2.50	1.98	79	73 - 124	2.50	1.89	76	5	30
Bromochloromethane	74-97-5	ND	0.250	2.50	2.56	102	73 - 127	2.50	2.55	102	0	30
Bromodichloromethane	75-27-4	ND	0.250	2.50	2.07	83	74 - 126	2.50	2.30	92	11	30

GC/MS Volatiles QC Summary

Analytical Batch 570842	Client ID	MB570842		LCS570842				LCSD570842				
	GCAL ID	1501876		1501877				1501878				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/23/2015 11:12		10/23/2015 08:56				10/23/2015 09:18				
	Matrix	Solid		Solid				Solid				
EPA 8260B		Units Result	mg/kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Bromoform	75-25-2	ND	0.250	2.50	2.50	100	67 - 122	2.50	2.52	101	1	30
Bromomethane	74-83-9	ND	0.250	2.50	2.96	118	48 - 139	2.50	3.35	134	12	30
Carbon disulfide	75-15-0	ND	0.250	2.50	2.49	100	68 - 133	2.50	2.56	102	3	30
Carbon tetrachloride	56-23-5	ND	0.250	2.50	2.37	95	71 - 133	2.50	2.26	90	5	30
Chlorobenzene	108-90-7	ND	0.250	2.50	2.43	97	75 - 121	2.50	2.41	96	1	20
Chloroethane	75-00-3	ND	0.250	2.50	2.23	89	57 - 144	2.50	2.33	93	4	30
Chloroform	67-66-3	ND	0.250	2.50	2.22	89	74 - 124	2.50	2.17	87	2	30
Chloromethane	74-87-3	ND	0.250	2.50	1.97	79	61 - 130	2.50	2.19	88	11	30
cis-1,2-Dichloroethene	156-59-2	ND	0.250	2.50	2.30	92	72 - 130	2.50	2.22	89	4	30
cis-1,3-Dichloropropene	10061-01-5	ND	0.250	2.50	2.31	92	72 - 129	2.50	2.52	101	9	30
Dibromochloromethane	124-48-1	ND	0.250	2.50	2.55	102	74 - 122	2.50	2.54	102	0	30
Dibromomethane	74-95-3	ND	0.250	2.50	2.31	92	72 - 125	2.50	2.51	100	8	30
Dichlorodifluoromethane	75-71-8	ND	0.250	2.50	1.96	78	59 - 138	2.50	2.00	80	2	30
Ethylbenzene	100-41-4	ND	0.250	2.50	2.50	100	74 - 130	2.50	2.45	98	2	30
Hexachlorobutadiene	87-68-3	ND	0.250	2.50	2.45	98	71 - 140	2.50	2.36	94	4	30
Isopropylbenzene (Cumene)	98-82-8	ND	0.250	2.50	2.51	100	74 - 125	2.50	2.44	98	3	30
m,p-Xylene	136777-61-2	ND	0.500	5.00	5.17	103	72 - 128	5.00	5.11	102	1	30
Methyl iodide	74-88-4	ND	0.250	2.50	4.03	**161***	54 - 140	2.50	4.51	**180***	11	30
Methylene chloride	75-09-2	ND	0.500	2.50	2.31	92	66 - 130	2.50	2.36	94	2	30
Naphthalene	91-20-3	ND	0.250	2.50	2.16	86	54 - 132	2.50	2.28	91	5	35
n-Butylbenzene	104-51-8	ND	0.250	2.50	2.28	91	68 - 144	2.50	2.34	94	3	30
n-Propylbenzene	103-65-1	ND	0.250	2.50	2.17	87	73 - 137	2.50	2.05	82	6	30
o-Xylene	95-47-6	ND	0.250	2.50	2.71	108	69 - 133	2.50	2.73	109	1	30
sec-Butylbenzene	135-98-8	ND	0.250	2.50	2.27	91	72 - 141	2.50	2.30	92	1	30
Styrene	100-42-5	ND	0.250	2.50	2.65	106	72 - 128	2.50	2.66	106	0	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	0.250	2.50	2.38	95	69 - 126	2.50	2.42	97	2	30
tert-Butylbenzene	98-06-6	ND	0.250	2.50	2.19	88	72 - 136	2.50	2.23	89	2	30
Tetrachloroethene	127-18-4	ND	0.250	2.50	2.58	103	70 - 127	2.50	2.51	100	3	30
Toluene	108-88-3	ND	0.250	2.50	2.47	99	74 - 121	2.50	2.40	96	3	20
trans-1,2-Dichloroethene	156-60-5	ND	0.250	2.50	2.49	100	67 - 134	2.50	2.55	102	2	30
trans-1,3-Dichloropropene	10061-02-6	ND	0.250	2.50	2.20	88	72 - 126	2.50	2.28	91	4	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	0.250	2.50	1.88	75	44 - 146	2.50	1.93	77	3	30
Trichloroethene	79-01-6	ND	0.250	2.50	2.36	94	78 - 127	2.50	2.38	95	1	20
Trichlorofluoromethane	75-69-4	ND	0.250	2.50	2.29	92	64 - 141	2.50	2.30	92	0	30
Trichlorotrifluoroethane	76-13-1	ND	0.250	2.50	2.63	105	66 - 139	2.50	2.59	104	2	30
Vinyl chloride	75-01-4	ND	0.250	2.50	2.22	89	67 - 131	2.50	2.39	96	7	30
Xylene (total)	1330-20-7	ND	0.750	7.50	7.87	105	71 - 129	7.50	7.84	105	0	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	2.55	102	2.5	2.37	95	62 - 125	2.5	2.32	93	2	NA
4-Bromofluorobenzene	460-00-4	2.67	107	2.5	2.94	118	62 - 127	2.5	2.69	108	9	NA
Dibromofluoromethane	1868-53-7	2.52	101	2.5	2.61	104	65 - 130	2.5	2.44	98	7	NA
Toluene d8	2037-26-5	2.52	101	2.5	2.59	104	71 - 132	2.5	2.5	100	4	NA

Analytical Batch 570694	Client ID	MB570694		LCS570694				LCSD570694				
	GCAL ID	1501250		1501251				1501252				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/21/2015 14:03		10/21/2015 12:09				10/21/2015 12:32				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	5.00	50.0	50.8	102	75 - 124	50.0	51.1	102	1	30
1,1,1-Trichloroethane	71-55-6	ND	5.00	50.0	46.3	93	76 - 126	50.0	45.6	91	2	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.00	50.0	43.2	86	70 - 122	50.0	44.1	88	2	30
1,1,2-Trichloroethane	79-00-5	ND	5.00	50.0	46.8	94	72 - 121	50.0	48.1	96	3	30
1,1-Dichloroethane	75-34-3	ND	5.00	50.0	44.4	89	74 - 127	50.0	45.8	92	3	30
1,1-Dichloroethene	75-35-4	ND	5.00	50.0	47.4	95	69 - 129	50.0	47.7	95	1	20

GC/MS Volatiles QC Summary

Analytical Batch 570694	Client ID	MB570694	LCS570694	LCSD570694
	GCAL ID	1501250	1501251	1501252
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	10/21/2015 14:03	10/21/2015 12:09	10/21/2015 12:32
	Matrix	Water	Water	Water

EPA 8260B		Units	ug/L	Spike			Control	Spike				
		Result	LOQ	Added	Result	%R	Limits%R	Added	Result	%R	RPD	RPD Limit
1,1-Dichloropropene	563-58-6	ND	5.00	50.0	50.6	101	72 - 131	50.0	50.8	102	0	30
1,2,3-Trichloropropane	96-18-4	ND	5.00	50.0	43.5	87	70 - 120	50.0	45.7	91	5	30
1,2,4-Trichlorobenzene	120-82-1	ND	5.00	50.0	57.3	115	61 - 135	50.0	57.9	116	1	30
1,2,4-Trimethylbenzene	95-63-6	ND	5.00	50.0	50.1	100	74 - 125	50.0	49.7	99	1	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	5.00	50.0	49.1	98	57 - 121	50.0	51.3	103	4	30
1,2-Dibromoethane	106-93-4	ND	5.00	50.0	49.3	99	70 - 124	50.0	51.3	103	4	30
1,2-Dichlorobenzene	95-50-1	ND	5.00	50.0	49.2	98	71 - 126	50.0	49.0	98	0	30
1,2-Dichloroethane	107-06-2	ND	5.00	50.0	45.9	92	71 - 129	50.0	45.8	92	0	30
1,2-Dichloroethene(Total)	540-59-0	ND	10.0	100	96.9	97	74 - 128	100	98.6	99	2	30
1,2-Dichloropropane	78-87-5	ND	5.00	50.0	44.2	88	72 - 128	50.0	45.5	91	3	30
1,3,5-Trimethylbenzene	108-67-8	ND	5.00	50.0	49.2	98	71 - 132	50.0	49.1	98	0	30
1,3-Dichlorobenzene	541-73-1	ND	5.00	50.0	50.4	101	74 - 126	50.0	49.1	98	3	30
1,3-Dichloropropane	142-28-9	ND	5.00	50.0	49.2	98	74 - 122	50.0	49.8	100	1	30
1,4-Dichlorobenzene	106-46-7	ND	5.00	50.0	45.5	91	72 - 122	50.0	46.2	92	2	30
2,2-Dichloropropane	594-20-7	ND	5.00	50.0	49.0	98	77 - 124	50.0	49.4	99	1	30
2-Butanone	78-93-3	ND	5.00	50.0	40.6	81	58 - 137	50.0	44.0	88	8	30
2-Chlorotoluene	95-49-8	ND	5.00	50.0	46.5	93	72 - 127	50.0	46.4	93	0	30
2-Hexanone	591-78-6	ND	5.00	50.0	47.9	96	50 - 135	50.0	49.4	99	3	30
4-Chlorotoluene	106-43-4	ND	5.00	50.0	46.7	93	75 - 126	50.0	47.0	94	1	30
4-Isopropyltoluene	99-87-6	ND	5.00	50.0	51.2	102	71 - 129	50.0	51.1	102	0	30
4-Methyl-2-pentanone	108-10-1	ND	5.00	50.0	42.7	85	57 - 132	50.0	44.6	89	4	30
Acetone	67-64-1	ND	5.00	50.0	48.7	97	44 - 156	50.0	53.2	106	9	30
Benzene	71-43-2	ND	5.00	50.0	47.1	94	70 - 129	50.0	48.4	97	3	20
Bromobenzene	108-86-1	ND	5.00	50.0	43.7	87	71 - 120	50.0	42.5	85	3	30
Bromochloromethane	74-97-5	ND	5.00	50.0	52.1	104	76 - 130	50.0	52.6	105	1	30
Bromodichloromethane	75-27-4	ND	5.00	50.0	45.8	92	74 - 125	50.0	48.1	96	5	30
Bromoform	75-25-2	ND	5.00	50.0	53.1	106	64 - 122	50.0	54.7	109	3	30
Bromomethane	74-83-9	ND	5.00	50.0	46.5	93	47 - 138	50.0	59.4	119	24	30
Carbon disulfide	75-15-0	ND	5.00	50.0	51.8	104	69 - 136	50.0	52.9	106	2	30
Carbon tetrachloride	56-23-5	ND	5.00	50.0	51.1	102	76 - 128	50.0	51.1	102	0	30
Chlorobenzene	108-90-7	ND	5.00	50.0	51.9	104	74 - 123	50.0	51.4	103	1	20
Chloroethane	75-00-3	ND	5.00	50.0	44.4	89	62 - 141	50.0	49.3	99	10	30
Chloroform	67-66-3	ND	5.00	50.0	46.2	92	75 - 122	50.0	47.6	95	3	30
Chloromethane	74-87-3	ND	5.00	50.0	38.8	78	59 - 132	50.0	43.1	86	11	30
cis-1,2-Dichloroethene	156-59-2	ND	5.00	50.0	47.2	94	73 - 130	50.0	48.4	97	3	30
cis-1,3-Dichloropropene	10061-01-5	ND	5.00	50.0	51.3	103	71 - 132	50.0	51.5	103	0	30
Dibromochloromethane	124-48-1	ND	5.00	50.0	55.8	112	71 - 123	50.0	54.7	109	2	30
Dibromomethane	74-95-3	ND	5.00	50.0	49.7	99	72 - 129	50.0	53.6	107	8	30
Dichlorodifluoromethane	75-71-8	ND	5.00	50.0	45.7	91	58 - 140	50.0	47.7	95	4	30
Ethylbenzene	100-41-4	ND	5.00	50.0	52.9	106	74 - 126	50.0	52.4	105	1	30
Hexachlorobutadiene	87-68-3	ND	5.00	50.0	52.4	105	61 - 144	50.0	52.2	104	0	30
Isopropylbenzene (Cumene)	98-82-8	ND	5.00	50.0	54.2	108	71 - 125	50.0	53.1	106	2	30
m,p-Xylene	136777-61-2	ND	10.0	100	110	110	74 - 126	100	109	109	1	30
Methyl iodide	74-88-4	ND	5.00	50.0	65.0	130	57 - 141	50.0	70.0	140	7	30
Methylene chloride	75-09-2	ND	5.00	50.0	44.8	90	68 - 132	50.0	48.3	97	8	30
Naphthalene	91-20-3	ND	5.00	50.0	47.1	94	57 - 138	50.0	49.7	99	5	35
n-Butylbenzene	104-51-8	ND	5.00	50.0	51.5	103	69 - 134	50.0	49.5	99	4	30
n-Propylbenzene	103-65-1	ND	5.00	50.0	46.5	93	75 - 129	50.0	46.2	92	1	30
o-Xylene	95-47-6	ND	5.00	50.0	57.8	116	73 - 130	50.0	58.3	117	1	30
sec-Butylbenzene	135-98-8	ND	5.00	50.0	50.5	101	70 - 136	50.0	49.0	98	3	30
Styrene	100-42-5	ND	5.00	50.0	55.8	112	71 - 127	50.0	56.0	112	0	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	5.00	50.0	47.0	94	71 - 125	50.0	48.8	98	4	30
tert-Butylbenzene	98-06-6	ND	5.00	50.0	47.9	96	72 - 126	50.0	48.0	96	0	30
Tetrachloroethene	127-18-4	ND	5.00	50.0	55.5	111	68 - 128	50.0	55.6	111	0	30
Toluene	108-88-3	ND	5.00	50.0	51.8	104	72 - 120	50.0	51.3	103	1	20
trans-1,2-Dichloroethene	156-60-5	ND	5.00	50.0	49.8	100	69 - 132	50.0	50.1	100	1	30
trans-1,3-Dichloropropene	10061-02-6	ND	5.00	50.0	49.5	99	71 - 131	50.0	51.7	103	4	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	5.00	50.0	40.1	80	56 - 132	50.0	44.2	88	10	30

GC/MS Volatiles QC Summary

Analytical Batch 570694	Client ID	MB570694		LCS570694				LCSD570694				
	GCAL ID	1501250		1501251				1501252				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/21/2015 14:03		10/21/2015 12:09				10/21/2015 12:32				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Trichloroethene	79-01-6	ND	5.00	50.0	50.7	101	76 - 129	50.0	52.6	105	4	20
Trichlorofluoromethane	75-69-4	ND	5.00	50.0	48.5	97	72 - 136	50.0	49.1	98	1	30
Trichlorotrifluoroethane	76-13-1	ND	5.00	50.0	54.4	109	72 - 136	50.0	55.6	111	2	30
Vinyl chloride	75-01-4	ND	5.00	50.0	45.3	91	68 - 132	50.0	49.3	99	8	30
Xylene (total)	1330-20-7	ND	15.0	150	167	111	74 - 127	150	167	111	0	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	44.9	90	50	48.5	97	71 - 127	50	50.1	100	3	NA
4-Bromofluorobenzene	460-00-4	55.3	111	50	56.7	113	78 - 130	50	56	112	1	NA
Dibromofluoromethane	1868-53-7	49.2	98	50	51	102	77 - 127	50	50.7	101	1	NA
Toluene d8	2037-26-5	53.8	108	50	51.8	104	76 - 134	50	52.1	104	1	NA

Analytical Batch 570694	Client ID	MW-9 OW-3 (85-89)		MW-9 OW-3 (85-89)MS				MW-9 OW-3 (85-89)MSD				
	GCAL ID	21510210401		21510210402				21510210403				
	Sample Type	SAMPLE		MS				MSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/21/2015 19:02		10/21/2015 20:16				10/21/2015 20:39				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1-Trichloroethane	71-55-6	0.00	5.00	50.0	45.1	90	76 - 126	50.0	45.2	90	0	30
1,1,2,2-Tetrachloroethane	79-34-5	0.00	5.00	50.0	42.7	85	70 - 122	50.0	47.3	95	10	30
1,1,2-Trichloroethane	79-00-5	0.00	5.00	50.0	46.8	94	72 - 121	50.0	49.3	99	5	30
1,1-Dichloroethane	75-34-3	0.00	5.00	50.0	44.8	90	74 - 127	50.0	46.1	92	3	30
1,1-Dichloroethene	75-35-4	0.00	5.00	50.0	46.9	94	69 - 129	50.0	49.8	100	6	20
1,2-Dichloroethane	107-06-2	0.00	5.00	50.0	43.8	88	71 - 129	50.0	45.4	91	4	30
1,2-Dichloropropane	78-87-5	0.00	5.00	50.0	43.7	87	72 - 128	50.0	44.9	90	3	30
2-Butanone	78-93-3	0.00	5.00	50.0	32.2	64	58 - 137	50.0	32.7	65	2	30
2-Hexanone	591-78-6	0.00	5.00	50.0	41.4	83	50 - 135	50.0	45.5	91	9	30
4-Methyl-2-pentanone	108-10-1	0.00	5.00	50.0	45.5	91	57 - 132	50.0	46.3	93	2	30
Acetone	67-64-1	0.00	5.00	50.0	31.8	64	44 - 156	50.0	33.7	67	6	30
Benzene	71-43-2	0.00	5.00	50.0	47.7	95	70 - 129	50.0	48.2	96	1	20
Bromodichloromethane	75-27-4	0.00	5.00	50.0	45.4	91	74 - 125	50.0	45.4	91	0	30
Bromoform	75-25-2	0.00	5.00	50.0	53.8	108	64 - 122	50.0	56.2	112	4	30
Bromomethane	74-83-9	0.00	5.00	50.0	53.9	108	47 - 138	50.0	63.8	128	17	30
Carbon disulfide	75-15-0	0.00	5.00	50.0	51.5	103	69 - 136	50.0	52.5	105	2	30
Carbon tetrachloride	56-23-5	0.00	5.00	50.0	48.1	96	76 - 128	50.0	49.9	100	4	30
Chlorobenzene	108-90-7	0.00	5.00	50.0	52.1	104	74 - 123	50.0	54.4	109	4	20
Chloroethane	75-00-3	0.00	5.00	50.0	47.0	94	62 - 141	50.0	48.0	96	2	30
Chloroform	67-66-3	0.00	5.00	50.0	45.7	91	75 - 122	50.0	46.2	92	1	30
Chloromethane	74-87-3	0.00	5.00	50.0	41.8	84	59 - 132	50.0	43.5	87	4	30
cis-1,2-Dichloroethene	156-59-2	0.00	5.00	50.0	47.3	95	73 - 130	50.0	48.4	97	2	30
cis-1,3-Dichloropropene	10061-01-5	0.00	5.00	50.0	47.8	96	71 - 132	50.0	50.0	100	4	30
Dibromochloromethane	124-48-1	0.00	5.00	50.0	55.5	111	71 - 123	50.0	57.2	114	3	30
Ethylbenzene	100-41-4	0.00	5.00	50.0	53.3	107	74 - 126	50.0	55.0	110	3	30
Methylene chloride	75-09-2	0.00	5.00	50.0	43.2	86	68 - 132	50.0	46.7	93	8	30
Styrene	100-42-5	0.00	5.00	50.0	56.3	113	71 - 127	50.0	58.7	117	4	30
Tetrachloroethene	127-18-4	0.00	5.00	50.0	55.6	111	68 - 128	50.0	57.9	116	4	30
Toluene	108-88-3	0.00	5.00	50.0	50.9	102	72 - 120	50.0	53.3	107	5	20
trans-1,2-Dichloroethene	156-60-5	0.00	5.00	50.0	47.5	95	69 - 132	50.0	49.0	98	3	30
trans-1,3-Dichloropropene	10061-02-6	0.00	5.00	50.0	49.4	99	71 - 131	50.0	50.2	100	2	30
Trichloroethene	79-01-6	0.00	5.00	50.0	50.1	100	76 - 129	50.0	50.4	101	1	20
Trichlorofluoromethane	75-69-4	0.00	5.00	50.0	46.1	92	72 - 136	50.0	50.5	101	9	30
Vinyl chloride	75-01-4	0.00	5.00	50.0	46.2	92	68 - 132	50.0	49.2	98	6	30
Xylene (total)	1330-20-7	0.00	15.0	150	166	111	74 - 127	150	174	116	5	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	47	94	50	48.2	96	71 - 127	50	47.6	95	1	NA
4-Bromofluorobenzene	460-00-4	54.7	109	50	55.6	111	78 - 130	50	57.8	116	4	NA

GC/MS Volatiles QC Summary

Analytical Batch 570694	Client ID	MW-9 OW-3 (85-89)		MW-9 OW-3 (85-89)MS				MW-9 OW-3 (85-89)MSD				
	GCAL ID	21510210401		21510210402				21510210403				
	Sample Type	SAMPLE		MS				MSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/21/2015 19:02		10/21/2015 20:16				10/21/2015 20:39				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Dibromofluoromethane	1868-53-7	49.7	99	50	50.8	102	77 - 127	50	48.8	98	4	NA
Toluene d8	2037-26-5	54.5	109	50	52.6	105	76 - 134	50	52.2	104	1	NA

GCAL ANALYTICAL LABORATORIES, LLC

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

CHAIN OF CUSTODY RECORD

Client ID: 4912 - Clearwater Environmental Resources
SDG: 215102109
PM: SAK

Report to:	Bill to:
Client: Clearwater Environmental Resources	Client: Same
Address: 3870 Peachtree Industrial Blvd. Ste. 340B, Duluth, GA 30096	Address:
Contact: Jack Wintle	Contact:
Phone: 678-491-4601	Phone:
E-mail: jack.wintle@clearwaterenv.net	E-mail:

P.O. Number: —
Project Name/Number: Rayloc PDA Confirmation
Sampled By: Matthew R. Howe

GCAL use only:
Custody Seal used ☐ yes ☐ no intact ☐ yes ☐ no
Temperature °C 2.1 ERM

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	No Containers	Analytical Requests & Method: EPA method 8260B - VOCs (Matrix: Meoh)	EPA Method 8260B- VOCs (HCl)	Preservative
S	10/19/15	1033		X	PD-2 @ 10'	4	X		1
		1055			WD-2@10'				2
		1155			WD-4@10'				3
		0956			WD-8@5'				4
		1110			WD-11@10'				5
		1128			ADD-1@6'				6
		1128			ADD-1@10'				7
		1212			ADD-2@5'				8
		1212			ADD-2@10'				9
W		—			Trip Blank	3		X	10

Air Bill No: 7747 8191 6659

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☒ Standard (Per Contract/Quote)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Matt Howe	10/20/15	1340	Brad Ludlum	10/20/15	1340
Brad Ludlum	10/20/15	1415	Fedex		
Fedex	10-21-15	1011	[illegible]	10-21-15	1011

Note: Page 1 of 1

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

215102109

SAMPLE DELIVERY GROUP 215102109	
Client PM SAK 4912 - Clearwater Environmental Resources	**Transport Method** FEDEX
Profile Number 259985	**Received By** McCune, Dodie N.
Line Item(s) 3 - VOC 2 day 4 - Soils 2-Day Lead only	**Receive Date(s)** 10/21/15

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☑	☐	☐
Was preservative added to any container at the lab?	☐	☑	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☑	☐	☐
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☑	☐	☐
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑	☐	☐

COOLERS

Airbill	Thermometer ID: E24	Temp(°C)
774781916659		2.1

DISCREPANCIES

None

LAB PRESERVATIONS

None

NOTES

Revision 1.4

APPENDIX B
SEPTEMBER & OCTOBER 2015
GROUNDWATER LABORATORY DATA

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 10/01/2015

GCAL Report 215092534

Project Rayloc Groundwater Sampling

Deliver To	***Report cc***
Jack Wintle Clearwater Env. Resources Peachtree Industrial blvd Duluth, GA 30096 678-491-4601	Jack Wintle, Clearwater Env. Resources

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
DL	Diluted analysis – when appended to Client Sample ID
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
00:01	Reported as a time equivalent to 12:00 AM

Reporting Flags that may be Utilized in this Report

J or I	Indicates the result is between the MDL and LOQ
J	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
U	Indicates the compound was analyzed for but not detected
B or V	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*****	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
E	The result is estimated because it exceeded the instrument calibration range
E	Metals - % diference for the serial dilution is > 10%

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____
Authorized Signature
GCAL Report 215092534

Case Narrative

Client: Clearwater Environmental Resources **Report:** 215092534

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the EPA 8260B analysis, samples 21509253402 (MW-12@60), 21509253404 (MW-17@30), 21509253406 (MW-24@30), 21509253408 (PT-3@60), 21509253409 (MW-20@60'), 21509253410 (MW-21@60) 21509253411 (MW-22@60'), and 21509253412 (MW-23@60), had to be diluted to bracket the concentration of target analytes within the calibration range of the instrument. The dilutions are reflected in elevated reporting limits.

METALS

In the EPA 6020A analysis, sample 21509253412 (MW-23@60) had to be diluted in order to bracket the concentration of a target analyte within the calibration range of the instrument.

In the EPA 6020A analysis for prep batch 568576, the MS and/or MSD recovery for the batch QC sample is outside the control limits for Iron. The LCS recovery is within the control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

CONVENTIONALS

In the EPA 9056A analysis, samples 21509253406 (MW-24@30), 21509253408 (PT-3@60), 21509253410 (MW-21@60) and 21509253412 (MW-23@60) had to be diluted in order to bracket the concentration of target analytes within the calibration range of the instrument and/or to eliminate background interference.

In the EPA 353.2 Rev. 2 Nitrate/Nitrite analysis, samples 21509253406 (MW-24@30), 21509253408 (PT-3@60) and 21509253410 (MW-21@60) had to be diluted in order to bracket the concentration within the calibration range of the instrument.

In the GCAL SOP WL-070 analysis for Pyruvic Acid, samples 21509253406 (MW-24@30), 21509253408 (PT-3@60'), 21509253410 (MW-21@60'), and 21509253412 (MW-23@60') required a dilution to eliminate background interference. This is reflected in the elevated reporting limit.

In the GCAL SOP WL-070 analysis for analytical batch 568727, the MS and/or MSD recovery is outside control limits for Pyruvic Acid and Propionic Acid. The LCS recovery is acceptable. This indicates the analysis is in control and the sample is affected by matrix interference.

Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21509253401	MW-7@30	Water	09/21/2015 09:35	09/25/2015 10:17
21509253402	MW-12@60	Water	09/21/2015 14:09	09/25/2015 10:17
21509253403	MW-15@30	Water	09/21/2015 12:04	09/25/2015 10:17
21509253404	MW-17@30	Water	09/21/2015 10:20	09/25/2015 10:17
21509253405	MW-19@30	Water	09/21/2015 11:27	09/25/2015 10:17
21509253406	MW-24@30	Water	09/21/2015 14:45	09/25/2015 10:17
21509253407	TRIP BLANK	Water	09/21/2015 00:01	09/25/2015 10:17
21509253408	PT-3@60	Water	09/22/2015 08:27	09/25/2015 10:17
21509253409	MW-20@60'	Water	09/22/2015 09:41	09/25/2015 10:17
21509253410	MW-21@60	Water	09/23/2015 12:06	09/25/2015 10:17
21509253411	MW-22@60'	Water	09/22/2015 12:40	09/25/2015 10:17
21509253412	MW-23@60	Water	09/22/2015 10:48	09/25/2015 10:17
21509253413	TRIP BLANK	Water	09/23/2015 00:01	09/25/2015 10:17

Summary of Compounds Detected

MW-7@30

Collect Date 09/21/2015 09:35 **GCAL ID** 21509253401
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
156-59-2	cis-1,2-Dichloroethene	9.72	5.00	ug/L
127-18-4	Tetrachloroethene	28.6	5.00	ug/L
79-01-6	Trichloroethene	7.75	5.00	ug/L

MW-12@60

Collect Date 09/21/2015 14:09 **GCAL ID** 21509253402
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	19.9	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	17.7	5.00	ug/L
127-18-4	Tetrachloroethene	538	50.0	ug/L
79-01-6	Trichloroethene	12.6	5.00	ug/L

MW-15@30

Collect Date 09/21/2015 12:04 **GCAL ID** 21509253403
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	16.9	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	16.9	5.00	ug/L
75-01-4	Vinyl chloride	97.7	5.00	ug/L

MW-17@30

Collect Date 09/21/2015 10:20 **GCAL ID** 21509253404
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	418	200	ug/L
156-59-2	cis-1,2-Dichloroethene	409	100	ug/L
127-18-4	Tetrachloroethene	1090	100	ug/L

Summary of Compounds Detected

MW-17@30

Collect Date 09/21/2015 10:20 **GCAL ID** 21509253404
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B (Continued)

CAS#	Parameter	Result	LOQ	Units
79-01-6	Trichloroethene	219	100	ug/L

EPA RSK-175

CAS#	Parameter	Result	LOQ	Units
74-84-0	Ethane	2.19	1.00	ug/L
74-82-8	Methane	15.2	2.00	ug/L

EPA 353.2 Rev. 2 Nitrate

CAS#	Parameter	Result	LOQ	Units
C-005	Nitrate/Nitrite	0.712	0.010	mg/L-N

EPA 9056A

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	4.60	0.200	mg/L
14808-79-8	Sulfate	1.50	0.200	mg/L

SM 2320 B-2011

CAS#	Parameter	Result	LOQ	Units
000000-00-5	Total Alkalinity	54.1	1.0	mg/L CaCO3

MW-19@30

Collect Date 09/21/2015 11:27 **GCAL ID** 21509253405
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	31.7	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	31.7	5.00	ug/L
75-01-4	Vinyl chloride	7.49	5.00	ug/L

Summary of Compounds Detected

MW-24@30

Collect Date 09/21/2015 14:45 **GCAL ID** 21509253406
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	213	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	196	25.0	ug/L
127-18-4	Tetrachloroethene	150	5.00	ug/L
79-01-6	Trichloroethene	40.6	5.00	ug/L

EPA 6020A Dissolved

CAS#	Parameter	Result	LOQ	Units
7439-96-5	Manganese	27.5	5.00	ug/L

EPA 353.2 Rev. 2 Nitrate

CAS#	Parameter	Result	LOQ	Units
C-005	Nitrate/Nitrite	1.42	0.020	mg/L-N

EPA 9056A

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	50.2	4.00	mg/L
14808-79-8	Sulfate	0.328	0.200	mg/L

SM 2320 B-2011

CAS#	Parameter	Result	LOQ	Units
000000-00-5	Total Alkalinity	4.9	1.0	mg/L CaCO3

PT-3@60

Collect Date 09/22/2015 08:27 **GCAL ID** 21509253408
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	539	200	ug/L
156-59-2	cis-1,2-Dichloroethene	520	100	ug/L
127-18-4	Tetrachloroethene	6140	1000	ug/L

Summary of Compounds Detected

PT-3@60

Collect Date 09/22/2015 08:27 **GCAL ID** 21509253408
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B (Continued)

CAS#	Parameter	Result	LOQ	Units
79-01-6	Trichloroethene	738	100	ug/L

EPA 6020A Dissolved

CAS#	Parameter	Result	LOQ	Units
7439-96-5	Manganese	111	5.00	ug/L

EPA 353.2 Rev. 2 Nitrate

CAS#	Parameter	Result	LOQ	Units
C-005	Nitrate/Nitrite	1.27	0.050	mg/L-N

EPA 9056A

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	9.16	2.00	mg/L
14808-79-8	Sulfate	2.12	0.200	mg/L

SM 2320 B-2011

CAS#	Parameter	Result	LOQ	Units
000000-00-5	Total Alkalinity	44.0	1.0	mg/L CaCO3

MW-20@60'

Collect Date 09/22/2015 09:41 **GCAL ID** 21509253409
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	105	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	102	5.00	ug/L
127-18-4	Tetrachloroethene	1160	100	ug/L
79-01-6	Trichloroethene	133	5.00	ug/L

Summary of Compounds Detected

MW-21@60

Collect Date 09/23/2015 12:06 **GCAL ID** 21509253410
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	70100	10000	ug/L
79-01-6	Trichloroethene	1610	1000	ug/L

EPA 6020A Dissolved

CAS#	Parameter	Result	LOQ	Units
7439-96-5	Manganese	74.2	5.00	ug/L

EPA 353.2 Rev. 2 Nitrate

CAS#	Parameter	Result	LOQ	Units
C-005	Nitrate/Nitrite	7.30	0.100	mg/L-N

EPA 9056A

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	3.27	1.00	mg/L
14808-79-8	Sulfate	9.52	4.00	mg/L

SM 2320 B-2011

CAS#	Parameter	Result	LOQ	Units
000000-00-5	Total Alkalinity	47.7	1.0	mg/L CaCO3

MW-22@60'

Collect Date 09/22/2015 12:40 **GCAL ID** 21509253411
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	436	200	ug/L
156-59-2	cis-1,2-Dichloroethene	436	100	ug/L
127-18-4	Tetrachloroethene	1010	100	ug/L

Summary of Compounds Detected

MW-22@60'

Collect Date 09/22/2015 12:40 **GCAL ID** 21509253411
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B (Continued)

CAS#	Parameter	Result	LOQ	Units
79-01-6	Trichloroethene	169	5.00	ug/L

MW-23@60

Collect Date 09/22/2015 10:48 **GCAL ID** 21509253412
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	6820	500	ug/L
156-59-2	cis-1,2-Dichloroethene	6790	250	ug/L
127-18-4	Tetrachloroethene	4100	250	ug/L
79-01-6	Trichloroethene	521	25.0	ug/L

EPA 6020A Dissolved

CAS#	Parameter	Result	LOQ	Units
7439-96-5	Manganese	542	10.0	ug/L

EPA 353.2 Rev. 2 Nitrate

CAS#	Parameter	Result	LOQ	Units
C-005	Nitrate/Nitrite	0.146	0.010	mg/L-N

EPA 9056A

CAS#	Parameter	Result	LOQ	Units
16887-00-6	Chloride	100	20.0	mg/L
14808-79-8	Sulfate	0.891	0.200	mg/L

SM 2320 B-2011

CAS#	Parameter	Result	LOQ	Units
000000-00-5	Total Alkalinity	4.6	1.0	mg/L CaCO3

Sample Results

MW-7@30	**Collect Date**	09/21/2015 09:35	**GCAL ID**	21509253401
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 22:16	JCK	568782

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	**cis-1,2-Dichloroethene**	**9.72**	**5.00**	**ug/L**
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L

Sample Results

MW-7@30

Collect Date	09/21/2015 09:35	**GCAL ID**	21509253401
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 22:16	JCK	568782

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	**Tetrachloroethene**	**28.6**	**5.00**	**ug/L**
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	**Trichloroethene**	**7.75**	**5.00**	**ug/L**
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	5.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.3	ug/L	91	78 - 130
1868-53-7	Dibromofluoromethane	50	50.8	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	49.1	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.2	ug/L	100	71 - 127

MW-12@60

Collect Date	09/21/2015 14:09	**GCAL ID**	21509253402
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 23:19	JCK	568782

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L

Sample Results

MW-12@60

Collect Date	09/21/2015 14:09	**GCAL ID**	21509253402
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 23:19	JCK	568782

CAS#	Parameter	Result	LOQ	Units
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	**1,2-Dichloroethene(Total)**	**19.9**	**10.0**	**ug/L**
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	**cis-1,2-Dichloroethene**	**17.7**	**5.00**	**ug/L**
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L

Sample Results

MW-12@60	**Collect Date**	09/21/2015 14:09	**GCAL ID**	21509253402
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 23:19	JCK	568782

CAS#	Parameter	Result	LOQ	Units
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	**Trichloroethene**	**12.6**	**5.00**	**ug/L**
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	5.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.7	ug/L	89	78 - 130
1868-53-7	Dibromofluoromethane	50	50.7	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	48.2	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51.7	ug/L	103	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10	09/27/2015 22:59	JCK	568782

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**538**	**50.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	455	ug/L	91	78 - 130
1868-53-7	Dibromofluoromethane	500	514	ug/L	103	77 - 127
2037-26-5	Toluene d8	500	491	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	523	ug/L	105	71 - 127

Sample Results

MW-15@30	**Collect Date**	09/21/2015 12:04	**GCAL ID**	21509253403
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/28/2015 00:22	JCK	568782

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	**1,2-Dichloroethene(Total)**	**16.9**	**10.0**	**ug/L**
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	**cis-1,2-Dichloroethene**	**16.9**	**5.00**	**ug/L**
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L

Sample Results

MW-15@30

Collect Date	09/21/2015 12:04	**GCAL ID**	21509253403
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/28/2015 00:22	JCK	568782

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	**Vinyl chloride**	**97.7**	**5.00**	**ug/L**
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.2	ug/L	90	78 - 130
1868-53-7	Dibromofluoromethane	50	51.7	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	48.9	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51	ug/L	102	71 - 127

MW-17@30

Collect Date	09/21/2015 10:20	**GCAL ID**	21509253404
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/28/2015 01:23	JCK	568782

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L

Sample Results

MW-17@30	**Collect Date**	09/21/2015 10:20	**GCAL ID**	21509253404
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/28/2015 01:23	JCK	568782

CAS#	Parameter	Result	LOQ	Units
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L

Sample Results

MW-17@30	**Collect Date**	09/21/2015 10:20	**GCAL ID**	21509253404
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/28/2015 01:23	JCK	568782

CAS#	Parameter	Result	LOQ	Units
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	5.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.5	ug/L	89	78 - 130
1868-53-7	Dibromofluoromethane	50	50.7	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	48.2	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.5	ug/L	101	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	20	09/28/2015 01:03	JCK	568782

CAS#	Parameter	Result	LOQ	Units
540-59-0	**1,2-Dichloroethene(Total)**	**418**	**200**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**409**	**100**	**ug/L**
127-18-4	**Tetrachloroethene**	**1090**	**100**	**ug/L**
79-01-6	**Trichloroethene**	**219**	**100**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	911	ug/L	91	78 - 130
1868-53-7	Dibromofluoromethane	1000	1010	ug/L	101	77 - 127
2037-26-5	Toluene d8	1000	988	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1000	1010	ug/L	101	71 - 127

Sample Results

MW-17@30	**Collect Date**	09/21/2015 10:20	**GCAL ID**	21509253404
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 09:26	BMR	568892

CAS#	Parameter	Result	LOQ	Units
74-84-0	**Ethane**	**2.19**	**1.00**	**ug/L**
74-85-1	Ethene	ND	1.00	ug/L
74-82-8	**Methane**	**15.2**	**2.00**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	29.2	ug/L	72	40 - 143

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
09/29/2015 16:15	568576	EPA 3005A Dissolved	1	09/30/2015 12:21	JEL2	569097

CAS#	Parameter	Result	LOQ	Units
7439-89-6	Iron	ND	100	ug/L
7439-96-5	Manganese	ND	5.00	ug/L

EPA 353.2 Rev. 2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 17:24	SMR	568959

CAS#	Parameter	Result	LOQ	Units
C-005	**Nitrate/Nitrite**	**0.712**	**0.010**	**mg/L-N**

EPA 9056A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/25/2015 22:36	DMT	568647

CAS#	Parameter	Result	LOQ	Units
16887-00-6	**Chloride**	**4.60**	**0.200**	**mg/L**
14808-79-8	**Sulfate**	**1.50**	**0.200**	**mg/L**

Sample Results

MW-17@30

Collect Date	09/21/2015 10:20	**GCAL ID**	21509253404
Receive Date	09/25/2015 10:17	**Matrix**	Water

GCAL SOP WL-070

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/26/2015 19:27	DMT	568727

CAS#	Parameter	Result	LOQ	Units
64-19-7	Acetic Acid	ND	0.500	mg/L
107-92-6	Butyric Acid	ND	0.500	mg/L
64-18-6	Formic Acid	ND	0.500	mg/L
50-21-5	Lactic Acid	ND	0.500	mg/L
79-09-4	Propionic Acid	ND	0.500	mg/L
127-17-3	Pyruvic Acid	ND	0.500	mg/L

SM 2320 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 12:57	WRR	568758

CAS#	Parameter	Result	LOQ	Units
000000-00-5	**Total Alkalinity**	**54.1**	**1.0**	**mg/L CaCO3**

MW-19@30

Collect Date	09/21/2015 11:27	**GCAL ID**	21509253405
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 19:24	HPR	568952

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	**1,2-Dichloroethene(Total)**	**31.7**	**10.0**	**ug/L**
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L

Sample Results

MW-19@30	**Collect Date**	09/21/2015 11:27	**GCAL ID**	21509253405
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 19:24	HPR	568952

CAS#	Parameter	Result	LOQ	Units
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	**cis-1,2-Dichloroethene**	**31.7**	**5.00**	**ug/L**
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L

Sample Results

MW-19@30

Collect Date	09/21/2015 11:27	**GCAL ID**	21509253405
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 19:24	HPR	568952

CAS#	Parameter	Result	LOQ	Units
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	**Vinyl chloride**	**7.49**	**5.00**	**ug/L**
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.7	ug/L	89	78 - 130
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	49.2	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.6	ug/L	101	71 - 127

MW-24@30

Collect Date	09/21/2015 14:45	**GCAL ID**	21509253406
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/28/2015 03:30	JCK	568782

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	**1,2-Dichloroethene(Total)**	**213**	**10.0**	**ug/L**
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L

Sample Results

MW-24@30

Collect Date	09/21/2015 14:45	**GCAL ID**	21509253406
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/28/2015 03:30	JCK	568782

CAS#	Parameter	Result	LOQ	Units
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	**Tetrachloroethene**	**150**	**5.00**	**ug/L**
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	**Trichloroethene**	**40.6**	**5.00**	**ug/L**
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	5.00	ug/L

Sample Results

MW-24@30	**Collect Date**	09/21/2015 14:45	**GCAL ID**	21509253406
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/28/2015 03:30	JCK	568782

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.8	ug/L	92	78 - 130
1868-53-7	Dibromofluoromethane	50	51.5	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	49.1	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.4	ug/L	101	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5	09/28/2015 03:09	JCK	568782

CAS#	Parameter	Result	LOQ	Units
156-59-2	**cis-1,2-Dichloroethene**	**196**	**25.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	229	ug/L	92	78 - 130
1868-53-7	Dibromofluoromethane	250	258	ug/L	103	77 - 127
2037-26-5	Toluene d8	250	241	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	257	ug/L	103	71 - 127

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 09:36	BMR	568892

CAS#	Parameter	Result	LOQ	Units
74-84-0	Ethane	ND	1.00	ug/L
74-85-1	Ethene	ND	1.00	ug/L
74-82-8	Methane	ND	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	26.4	ug/L	65	40 - 143

Sample Results

MW-24@30	**Collect Date**	09/21/2015 14:45	**GCAL ID**	21509253406
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
09/29/2015 16:15	568576	EPA 3005A Dissolved	1	09/30/2015 12:27	JEL2	569097

CAS#	Parameter	Result	LOQ	Units
7439-89-6	Iron	ND	100	ug/L
7439-96-5	**Manganese**	**27.5**	**5.00**	**ug/L**

EPA 353.2 Rev. 2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	2	09/29/2015 17:25	SMR	568959

CAS#	Parameter	Result	LOQ	Units
C-005	**Nitrate/Nitrite**	**1.42**	**0.020**	**mg/L-N**

EPA 9056A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/25/2015 23:11	DMT	568647

CAS#	Parameter	Result	LOQ	Units
14808-79-8	**Sulfate**	**0.328**	**0.200**	**mg/L**

EPA 9056A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	20	09/25/2015 23:29	DMT	568647

CAS#	Parameter	Result	LOQ	Units
16887-00-6	**Chloride**	**50.2**	**4.00**	**mg/L**

GCAL SOP WL-070

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/26/2015 20:33	DMT	568727

CAS#	Parameter	Result	LOQ	Units
64-19-7	Acetic Acid	ND	0.500	mg/L
107-92-6	Butyric Acid	ND	0.500	mg/L
64-18-6	Formic Acid	ND	0.500	mg/L

Sample Results

MW-24@30

Collect Date 09/21/2015 14:45 **GCAL ID** 21509253406
Receive Date 09/25/2015 10:17 **Matrix** Water

GCAL SOP WL-070 (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/26/2015 20:33	DMT	568727

CAS#	Parameter	Result	LOQ	Units
50-21-5	Lactic Acid	ND	0.500	mg/L
79-09-4	Propionic Acid	ND	0.500	mg/L

GCAL SOP WL-070

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10	09/27/2015 10:28	DMT	568727

CAS#	Parameter	Result	LOQ	Units
127-17-3	Pyruvic Acid	ND	5.00	mg/L

SM 2320 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/30/2015 09:14	JEM	569040

CAS#	Parameter	Result	LOQ	Units
000000-00-5	**Total Alkalinity**	**4.9**	**1.0**	**mg/L CaCO3**

TRIP BLANK

Collect Date 09/21/2015 00:01 **GCAL ID** 21509253407
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 19:52	JCK	568782

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L

Sample Results

TRIP BLANK

Collect Date	09/21/2015 00:01	**GCAL ID**	21509253407
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 19:52	JCK	568782

CAS#	Parameter	Result	LOQ	Units
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L

Sample Results

TRIP BLANK

Collect Date	09/21/2015 00:01	**GCAL ID**	21509253407
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 19:52	JCK	568782

CAS#	Parameter	Result	LOQ	Units
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	5.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.4	ug/L	91	78 - 130
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	48.9	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.9	ug/L	102	71 - 127

PT-3@60

Collect Date	09/22/2015 08:27	**GCAL ID**	21509253408
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	20	09/29/2015 22:08	HPR	568952

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	ug/L
71-55-6	1,1,1-Trichloroethane	ND	100	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	ug/L
79-00-5	1,1,2-Trichloroethane	ND	100	ug/L
75-34-3	1,1-Dichloroethane	ND	100	ug/L
75-35-4	1,1-Dichloroethene	ND	100	ug/L
563-58-6	1,1-Dichloropropene	ND	100	ug/L
96-18-4	1,2,3-Trichloropropane	ND	100	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	100	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	100	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	ug/L
106-93-4	1,2-Dibromoethane	ND	100	ug/L
95-50-1	1,2-Dichlorobenzene	ND	100	ug/L
107-06-2	1,2-Dichloroethane	ND	100	ug/L
540-59-0	**1,2-Dichloroethene(Total)**	**539**	**200**	**ug/L**
78-87-5	1,2-Dichloropropane	ND	100	ug/L

Sample Results

PT-3@60	**Collect Date**	09/22/2015 08:27	**GCAL ID**	21509253408
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	20	09/29/2015 22:08	HPR	568952

CAS#	Parameter	Result	LOQ	Units
108-67-8	1,3,5-Trimethylbenzene	ND	100	ug/L
541-73-1	1,3-Dichlorobenzene	ND	100	ug/L
142-28-9	1,3-Dichloropropane	ND	100	ug/L
106-46-7	1,4-Dichlorobenzene	ND	100	ug/L
594-20-7	2,2-Dichloropropane	ND	100	ug/L
78-93-3	2-Butanone	ND	100	ug/L
95-49-8	2-Chlorotoluene	ND	100	ug/L
591-78-6	2-Hexanone	ND	100	ug/L
106-43-4	4-Chlorotoluene	ND	100	ug/L
99-87-6	4-Isopropyltoluene	ND	100	ug/L
108-10-1	4-Methyl-2-pentanone	ND	100	ug/L
67-64-1	Acetone	ND	100	ug/L
71-43-2	Benzene	ND	100	ug/L
108-86-1	Bromobenzene	ND	100	ug/L
74-97-5	Bromochloromethane	ND	100	ug/L
75-27-4	Bromodichloromethane	ND	100	ug/L
75-25-2	Bromoform	ND	100	ug/L
74-83-9	Bromomethane	ND	100	ug/L
75-15-0	Carbon disulfide	ND	100	ug/L
56-23-5	Carbon tetrachloride	ND	100	ug/L
108-90-7	Chlorobenzene	ND	100	ug/L
75-00-3	Chloroethane	ND	100	ug/L
67-66-3	Chloroform	ND	100	ug/L
74-87-3	Chloromethane	ND	100	ug/L
156-59-2	**cis-1,2-Dichloroethene**	**520**	**100**	**ug/L**
10061-01-5	cis-1,3-Dichloropropene	ND	100	ug/L
124-48-1	Dibromochloromethane	ND	100	ug/L
74-95-3	Dibromomethane	ND	100	ug/L
75-71-8	Dichlorodifluoromethane	ND	100	ug/L
100-41-4	Ethylbenzene	ND	100	ug/L
87-68-3	Hexachlorobutadiene	ND	100	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	100	ug/L
136777-61-2	m,p-Xylene	ND	200	ug/L
74-88-4	Methyl iodide	ND	100	ug/L
75-09-2	Methylene chloride	ND	100	ug/L
91-20-3	Naphthalene	ND	100	ug/L
104-51-8	n-Butylbenzene	ND	100	ug/L
103-65-1	n-Propylbenzene	ND	100	ug/L
95-47-6	o-Xylene	ND	100	ug/L
135-98-8	sec-Butylbenzene	ND	100	ug/L
100-42-5	Styrene	ND	100	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	100	ug/L
98-06-6	tert-Butylbenzene	ND	100	ug/L
108-88-3	Toluene	ND	100	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	100	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	100	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	100	ug/L
79-01-6	**Trichloroethene**	**738**	**100**	**ug/L**

Sample Results

PT-3@60	**Collect Date**	09/22/2015 08:27	**GCAL ID**	21509253408
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	20	09/29/2015 22:08	HPR	568952

CAS#	Parameter	Result	LOQ	Units
75-69-4	Trichlorofluoromethane	ND	100	ug/L
76-13-1	Trichlorotrifluoroethane	ND	100	ug/L
75-01-4	Vinyl chloride	ND	100	ug/L
1330-20-7	Xylene (total)	ND	300	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	894	ug/L	89	78 - 130
1868-53-7	Dibromofluoromethane	1000	1030	ug/L	103	77 - 127
2037-26-5	Toluene d8	1000	976	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1000	1040	ug/L	104	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	200	09/30/2015 21:21	CLH	569109

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**6140**	**1000**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	10000	9590	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	10000	10200	ug/L	102	77 - 127
2037-26-5	Toluene d8	10000	9730	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	10000	9990	ug/L	100	71 - 127

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 09:41	BMR	568892

CAS#	Parameter	Result	LOQ	Units
74-84-0	Ethane	ND	1.00	ug/L
74-85-1	Ethene	ND	1.00	ug/L
74-82-8	Methane	ND	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	24.5	ug/L	60	40 - 143

Sample Results

PT-3@60	**Collect Date**	09/22/2015 08:27	**GCAL ID**	21509253408
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
09/29/2015 16:15	568576	EPA 3005A Dissolved	1	09/30/2015 12:34	JEL2	569097

CAS#	Parameter	Result	LOQ	Units
7439-89-6	Iron	ND	100	ug/L
7439-96-5	**Manganese**	**111**	**5.00**	**ug/L**

EPA 353.2 Rev. 2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5	09/29/2015 17:50	SMR	568959

CAS#	Parameter	Result	LOQ	Units
C-005	**Nitrate/Nitrite**	**1.27**	**0.050**	**mg/L-N**

EPA 9056A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/25/2015 23:47	DMT	568647

CAS#	Parameter	Result	LOQ	Units
14808-79-8	**Sulfate**	**2.12**	**0.200**	**mg/L**

EPA 9056A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10	09/26/2015 00:04	DMT	568647

CAS#	Parameter	Result	LOQ	Units
16887-00-6	**Chloride**	**9.16**	**2.00**	**mg/L**

GCAL SOP WL-070

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/26/2015 20:56	DMT	568727

CAS#	Parameter	Result	LOQ	Units
64-19-7	Acetic Acid	ND	0.500	mg/L
107-92-6	Butyric Acid	ND	0.500	mg/L
64-18-6	Formic Acid	ND	0.500	mg/L

Sample Results

PT-3@60

Collect Date 09/22/2015 08:27 **GCAL ID** 21509253408
Receive Date 09/25/2015 10:17 **Matrix** Water

GCAL SOP WL-070 (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/26/2015 20:56	DMT	568727

CAS#	Parameter	Result	LOQ	Units
50-21-5	Lactic Acid	ND	0.500	mg/L
79-09-4	Propionic Acid	ND	0.500	mg/L

GCAL SOP WL-070

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5	09/27/2015 10:50	DMT	568727

CAS#	Parameter	Result	LOQ	Units
127-17-3	Pyruvic Acid	ND	2.50	mg/L

SM 2320 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 12:57	WRR	568758

CAS#	Parameter	Result	LOQ	Units
000000-00-5	**Total Alkalinity**	**44.0**	**1.0**	**mg/L CaCO3**

MW-20@60'

Collect Date 09/22/2015 09:41 **GCAL ID** 21509253409
Receive Date 09/25/2015 10:17 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 21:28	HPR	568952

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L

Sample Results

MW-20@60'	**Collect Date**	09/22/2015 09:41	**GCAL ID**	21509253409
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 21:28	HPR	568952

CAS#	Parameter	Result	LOQ	Units
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	**1,2-Dichloroethene(Total)**	**105**	**10.0**	**ug/L**
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	**cis-1,2-Dichloroethene**	**102**	**5.00**	**ug/L**
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L

Sample Results

MW-20@60'	**Collect Date**	09/22/2015 09:41	**GCAL ID**	21509253409
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 21:28	HPR	568952

CAS#	Parameter	Result	LOQ	Units
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	**Trichloroethene**	**133**	**5.00**	**ug/L**
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	5.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.3	ug/L	89	78 - 130
1868-53-7	Dibromofluoromethane	50	51.8	ug/L	104	77 - 127
2037-26-5	Toluene d8	50	47.9	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.7	ug/L	101	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	20	09/30/2015 21:42	CLH	569109

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**1160**	**100**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	966	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	1000	1020	ug/L	102	77 - 127
2037-26-5	Toluene d8	1000	981	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1000	1010	ug/L	101	71 - 127

Sample Results

MW-21@60	**Collect Date**	09/23/2015 12:06	**GCAL ID**	21509253410
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	200	10/01/2015 02:55	CLH	569124

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	1000	ug/L
71-55-6	1,1,1-Trichloroethane	ND	1000	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	1000	ug/L
79-00-5	1,1,2-Trichloroethane	ND	1000	ug/L
75-34-3	1,1-Dichloroethane	ND	1000	ug/L
75-35-4	1,1-Dichloroethene	ND	1000	ug/L
563-58-6	1,1-Dichloropropene	ND	1000	ug/L
96-18-4	1,2,3-Trichloropropane	ND	1000	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	1000	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	1000	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	1000	ug/L
106-93-4	1,2-Dibromoethane	ND	1000	ug/L
95-50-1	1,2-Dichlorobenzene	ND	1000	ug/L
107-06-2	1,2-Dichloroethane	ND	1000	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	2000	ug/L
78-87-5	1,2-Dichloropropane	ND	1000	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	1000	ug/L
541-73-1	1,3-Dichlorobenzene	ND	1000	ug/L
142-28-9	1,3-Dichloropropane	ND	1000	ug/L
106-46-7	1,4-Dichlorobenzene	ND	1000	ug/L
594-20-7	2,2-Dichloropropane	ND	1000	ug/L
78-93-3	2-Butanone	ND	1000	ug/L
95-49-8	2-Chlorotoluene	ND	1000	ug/L
591-78-6	2-Hexanone	ND	1000	ug/L
106-43-4	4-Chlorotoluene	ND	1000	ug/L
99-87-6	4-Isopropyltoluene	ND	1000	ug/L
108-10-1	4-Methyl-2-pentanone	ND	1000	ug/L
67-64-1	Acetone	ND	1000	ug/L
71-43-2	Benzene	ND	1000	ug/L
108-86-1	Bromobenzene	ND	1000	ug/L
74-97-5	Bromochloromethane	ND	1000	ug/L
75-27-4	Bromodichloromethane	ND	1000	ug/L
75-25-2	Bromoform	ND	1000	ug/L
74-83-9	Bromomethane	ND	1000	ug/L
75-15-0	Carbon disulfide	ND	1000	ug/L
56-23-5	Carbon tetrachloride	ND	1000	ug/L
108-90-7	Chlorobenzene	ND	1000	ug/L
75-00-3	Chloroethane	ND	1000	ug/L
67-66-3	Chloroform	ND	1000	ug/L
74-87-3	Chloromethane	ND	1000	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	1000	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	1000	ug/L
124-48-1	Dibromochloromethane	ND	1000	ug/L
74-95-3	Dibromomethane	ND	1000	ug/L
75-71-8	Dichlorodifluoromethane	ND	1000	ug/L
100-41-4	Ethylbenzene	ND	1000	ug/L
87-68-3	Hexachlorobutadiene	ND	1000	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	1000	ug/L

Sample Results

MW-21@60	**Collect Date**	09/23/2015 12:06	**GCAL ID**	21509253410
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	200	10/01/2015 02:55	CLH	569124

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	2000	ug/L
74-88-4	Methyl iodide	ND	1000	ug/L
75-09-2	Methylene chloride	ND	1000	ug/L
91-20-3	Naphthalene	ND	1000	ug/L
104-51-8	n-Butylbenzene	ND	1000	ug/L
103-65-1	n-Propylbenzene	ND	1000	ug/L
95-47-6	o-Xylene	ND	1000	ug/L
135-98-8	sec-Butylbenzene	ND	1000	ug/L
100-42-5	Styrene	ND	1000	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1000	ug/L
98-06-6	tert-Butylbenzene	ND	1000	ug/L
108-88-3	Toluene	ND	1000	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	1000	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	1000	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	1000	ug/L
79-01-6	**Trichloroethene**	**1610**	**1000**	**ug/L**
75-69-4	Trichlorofluoromethane	ND	1000	ug/L
76-13-1	Trichlorotrifluoroethane	ND	1000	ug/L
75-01-4	Vinyl chloride	ND	1000	ug/L
1330-20-7	Xylene (total)	ND	3000	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	10000	8770	ug/L	88	78 - 130
1868-53-7	Dibromofluoromethane	10000	10000	ug/L	100	77 - 127
2037-26-5	Toluene d8	10000	9730	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	10000	9900	ug/L	99	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	2000	10/01/2015 02:35	CLH	569124

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**70100**	**10000**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	100000	87000	ug/L	87	78 - 130
1868-53-7	Dibromofluoromethane	100000	102000	ug/L	102	77 - 127
2037-26-5	Toluene d8	100000	97400	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	100000	104000	ug/L	104	71 - 127

Sample Results

MW-21@60	**Collect Date**	09/23/2015 12:06	**GCAL ID**	21509253410
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 09:53	BMR	568892

CAS#	Parameter	Result	LOQ	Units
74-84-0	Ethane	ND	1.00	ug/L
74-85-1	Ethene	ND	1.00	ug/L
74-82-8	Methane	ND	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	26.5	ug/L	65	40 - 143

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
09/29/2015 16:15	568576	EPA 3005A Dissolved	1	09/30/2015 12:41	JEL2	569097

CAS#	Parameter	Result	LOQ	Units
7439-89-6	Iron	ND	100	ug/L
7439-96-5	**Manganese**	**74.2**	**5.00**	**ug/L**

EPA 353.2 Rev. 2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10	09/29/2015 17:51	SMR	568959

CAS#	Parameter	Result	LOQ	Units
C-005	**Nitrate/Nitrite**	**7.30**	**0.100**	**mg/L-N**

EPA 9056A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	20	09/26/2015 01:15	DMT	568647

CAS#	Parameter	Result	LOQ	Units
14808-79-8	**Sulfate**	**9.52**	**4.00**	**mg/L**

Sample Results

MW-21@60	**Collect Date**	09/23/2015 12:06	**GCAL ID**	21509253410
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 9056A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5	09/30/2015 08:23	RXJ	569006

CAS#	Parameter	Result	LOQ	Units
16887-00-6	**Chloride**	**3.27**	**1.00**	**mg/L**

GCAL SOP WL-070

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/26/2015 21:18	DMT	568727

CAS#	Parameter	Result	LOQ	Units
64-19-7	Acetic Acid	ND	0.500	mg/L
107-92-6	Butyric Acid	ND	0.500	mg/L
64-18-6	Formic Acid	ND	0.500	mg/L
50-21-5	Lactic Acid	ND	0.500	mg/L
79-09-4	Propionic Acid	ND	0.500	mg/L

GCAL SOP WL-070

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10	09/27/2015 11:12	DMT	568727

CAS#	Parameter	Result	LOQ	Units
127-17-3	Pyruvic Acid	ND	5.00	mg/L

SM 2320 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 12:57	WRR	568758

CAS#	Parameter	Result	LOQ	Units
000000-00-5	**Total Alkalinity**	**47.7**	**1.0**	**mg/L CaCO3**

Sample Results

MW-22@60'	**Collect Date**	09/22/2015 12:40	**GCAL ID**	21509253411
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 20:48	HPR	568952

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L

Sample Results

MW-22@60'	**Collect Date**	09/22/2015 12:40	**GCAL ID**	21509253411
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 20:48	HPR	568952

CAS#	Parameter	Result	LOQ	Units
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	**Trichloroethene**	**169**	**5.00**	**ug/L**
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	5.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.8	ug/L	90	78 - 130
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	49.6	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.6	ug/L	101	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	20	09/30/2015 22:03	CLH	569109

CAS#	Parameter	Result	LOQ	Units
540-59-0	**1,2-Dichloroethene(Total)**	**436**	**200**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**436**	**100**	**ug/L**
127-18-4	**Tetrachloroethene**	**1010**	**100**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	969	ug/L	97	78 - 130
1868-53-7	Dibromofluoromethane	1000	1030	ug/L	103	77 - 127
2037-26-5	Toluene d8	1000	986	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1000	995	ug/L	100	71 - 127

Sample Results

MW-23@60	**Collect Date**	09/22/2015 10:48	**GCAL ID**	21509253412
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5	09/29/2015 20:07	HPR	568952

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	25.0	ug/L
71-55-6	1,1,1-Trichloroethane	ND	25.0	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	25.0	ug/L
79-00-5	1,1,2-Trichloroethane	ND	25.0	ug/L
75-34-3	1,1-Dichloroethane	ND	25.0	ug/L
75-35-4	1,1-Dichloroethene	ND	25.0	ug/L
563-58-6	1,1-Dichloropropene	ND	25.0	ug/L
96-18-4	1,2,3-Trichloropropane	ND	25.0	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	25.0	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	25.0	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	25.0	ug/L
106-93-4	1,2-Dibromoethane	ND	25.0	ug/L
95-50-1	1,2-Dichlorobenzene	ND	25.0	ug/L
107-06-2	1,2-Dichloroethane	ND	25.0	ug/L
78-87-5	1,2-Dichloropropane	ND	25.0	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	25.0	ug/L
541-73-1	1,3-Dichlorobenzene	ND	25.0	ug/L
142-28-9	1,3-Dichloropropane	ND	25.0	ug/L
106-46-7	1,4-Dichlorobenzene	ND	25.0	ug/L
594-20-7	2,2-Dichloropropane	ND	25.0	ug/L
78-93-3	2-Butanone	ND	25.0	ug/L
95-49-8	2-Chlorotoluene	ND	25.0	ug/L
591-78-6	2-Hexanone	ND	25.0	ug/L
106-43-4	4-Chlorotoluene	ND	25.0	ug/L
99-87-6	4-Isopropyltoluene	ND	25.0	ug/L
108-10-1	4-Methyl-2-pentanone	ND	25.0	ug/L
67-64-1	Acetone	ND	25.0	ug/L
71-43-2	Benzene	ND	25.0	ug/L
108-86-1	Bromobenzene	ND	25.0	ug/L
74-97-5	Bromochloromethane	ND	25.0	ug/L
75-27-4	Bromodichloromethane	ND	25.0	ug/L
75-25-2	Bromoform	ND	25.0	ug/L
74-83-9	Bromomethane	ND	25.0	ug/L
75-15-0	Carbon disulfide	ND	25.0	ug/L
56-23-5	Carbon tetrachloride	ND	25.0	ug/L
108-90-7	Chlorobenzene	ND	25.0	ug/L
75-00-3	Chloroethane	ND	25.0	ug/L
67-66-3	Chloroform	ND	25.0	ug/L
74-87-3	Chloromethane	ND	25.0	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	25.0	ug/L
124-48-1	Dibromochloromethane	ND	25.0	ug/L
74-95-3	Dibromomethane	ND	25.0	ug/L
75-71-8	Dichlorodifluoromethane	ND	25.0	ug/L
100-41-4	Ethylbenzene	ND	25.0	ug/L
87-68-3	Hexachlorobutadiene	ND	25.0	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	25.0	ug/L
136777-61-2	m,p-Xylene	ND	50.0	ug/L
74-88-4	Methyl iodide	ND	25.0	ug/L

Sample Results

MW-23@60	**Collect Date**	09/22/2015 10:48	**GCAL ID**	21509253412
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5	09/29/2015 20:07	HPR	568952

CAS#	Parameter	Result	LOQ	Units
75-09-2	Methylene chloride	ND	25.0	ug/L
91-20-3	Naphthalene	ND	25.0	ug/L
104-51-8	n-Butylbenzene	ND	25.0	ug/L
103-65-1	n-Propylbenzene	ND	25.0	ug/L
95-47-6	o-Xylene	ND	25.0	ug/L
135-98-8	sec-Butylbenzene	ND	25.0	ug/L
100-42-5	Styrene	ND	25.0	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	25.0	ug/L
98-06-6	tert-Butylbenzene	ND	25.0	ug/L
108-88-3	Toluene	ND	25.0	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	25.0	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	25.0	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	25.0	ug/L
79-01-6	**Trichloroethene**	**521**	**25.0**	**ug/L**
75-69-4	Trichlorofluoromethane	ND	25.0	ug/L
76-13-1	Trichlorotrifluoroethane	ND	25.0	ug/L
75-01-4	Vinyl chloride	ND	25.0	ug/L
1330-20-7	Xylene (total)	ND	75.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	225	ug/L	90	78 - 130
1868-53-7	Dibromofluoromethane	250	249	ug/L	100	77 - 127
2037-26-5	Toluene d8	250	243	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	250	ug/L	100	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	50	09/29/2015 19:45	HPR	568952

CAS#	Parameter	Result	LOQ	Units
540-59-0	**1,2-Dichloroethene(Total)**	**6820**	**500**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**6790**	**250**	**ug/L**
127-18-4	**Tetrachloroethene**	**4100**	**250**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2500	2230	ug/L	89	78 - 130
1868-53-7	Dibromofluoromethane	2500	2490	ug/L	100	77 - 127
2037-26-5	Toluene d8	2500	2480	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	2500	2450	ug/L	98	71 - 127

Sample Results

MW-23@60	**Collect Date**	09/22/2015 10:48	**GCAL ID**	21509253412
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA RSK-175

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 09:58	BMR	568892

CAS#	Parameter	Result	LOQ	Units
74-84-0	Ethane	ND	1.00	ug/L
74-85-1	Ethene	ND	1.00	ug/L
74-82-8	Methane	ND	2.00	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
115-07-1	Propene	40.50	23.3	ug/L	58	40 - 143

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
09/29/2015 16:15	568576	EPA 3005A Dissolved	1	09/30/2015 12:48	JEL2	569097

CAS#	Parameter	Result	LOQ	Units
7439-89-6	Iron	ND	100	ug/L

EPA 6020A Dissolved

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
09/29/2015 16:15	568576	EPA 3005A Dissolved	2	09/30/2015 14:43	JEL2	569097

CAS#	Parameter	Result	LOQ	Units
7439-96-5	**Manganese**	**542**	**10.0**	**ug/L**

EPA 353.2 Rev. 2 Nitrate

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/29/2015 17:31	SMR	568959

CAS#	Parameter	Result	LOQ	Units
C-005	**Nitrate/Nitrite**	**0.146**	**0.010**	**mg/L-N**

Sample Results

MW-23@60	**Collect Date**	09/22/2015 10:48	**GCAL ID**	21509253412
	Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 9056A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/26/2015 01:32	DMT	568647

CAS#	Parameter	Result	LOQ	Units
14808-79-8	**Sulfate**	**0.891**	**0.200**	**mg/L**

EPA 9056A

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100	09/28/2015 21:40	RXJ	568885

CAS#	Parameter	Result	LOQ	Units
16887-00-6	**Chloride**	**100**	**20.0**	**mg/L**

GCAL SOP WL-070

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/26/2015 21:40	DMT	568727

CAS#	Parameter	Result	LOQ	Units
64-19-7	Acetic Acid	ND	0.500	mg/L
107-92-6	Butyric Acid	ND	0.500	mg/L
64-18-6	Formic Acid	ND	0.500	mg/L
50-21-5	Lactic Acid	ND	0.500	mg/L
79-09-4	Propionic Acid	ND	0.500	mg/L

GCAL SOP WL-070

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10	09/27/2015 11:34	DMT	568727

CAS#	Parameter	Result	LOQ	Units
127-17-3	Pyruvic Acid	ND	5.00	mg/L

Sample Results

MW-23@60

Collect Date	09/22/2015 10:48	**GCAL ID**	21509253412
Receive Date	09/25/2015 10:17	**Matrix**	Water

SM 2320 B-2011

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/30/2015 09:14	JEM	569040

CAS#	Parameter	Result	LOQ	Units
000000-00-5	**Total Alkalinity**	**4.6**	**1.0**	**mg/L CaCO3**

TRIP BLANK

Collect Date	09/23/2015 00:01	**GCAL ID**	21509253413
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 20:12	JCK	568782

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L

Sample Results

TRIP BLANK

Collect Date	09/23/2015 00:01	**GCAL ID**	21509253413
Receive Date	09/25/2015 10:17	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	09/27/2015 20:12	JCK	568782

CAS#	Parameter	Result	LOQ	Units
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	5.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.8	ug/L	92	78 - 130
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	48.7	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	50.5	ug/L	101	71 - 127

GC/MS Volatiles QC Summary

Analytical Batch 568782	Client ID	MB568782		LCS568782				LCSD568782				
	GCAL ID	1492357		1492358				1492359				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	09/27/2015 18:11		09/27/2015 16:51				09/27/2015 17:11				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	5.00	50.0	43.8	88	75 - 124	50.0	45.0	90	3	30
1,1,1-Trichloroethane	71-55-6	ND	5.00	50.0	46.8	94	76 - 126	50.0	45.0	90	4	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.00	50.0	47.5	95	70 - 122	50.0	47.6	95	0	30
1,1,2-Trichloroethane	79-00-5	ND	5.00	50.0	43.7	87	72 - 121	50.0	44.1	88	1	30
1,1-Dichloroethane	75-34-3	ND	5.00	50.0	46.4	93	74 - 127	50.0	46.1	92	1	30
1,1-Dichloroethene	75-35-4	ND	5.00	50.0	47.9	96	69 - 129	50.0	45.1	90	6	20
1,1-Dichloropropene	563-58-6	ND	5.00	50.0	46.9	94	72 - 131	50.0	45.7	91	3	30
1,2,3-Trichloropropane	96-18-4	ND	5.00	50.0	44.6	89	70 - 120	50.0	45.2	90	1	30
1,2,4-Trichlorobenzene	120-82-1	ND	5.00	50.0	42.0	84	61 - 135	50.0	41.2	82	2	30
1,2,4-Trimethylbenzene	95-63-6	ND	5.00	50.0	49.1	98	74 - 125	50.0	47.7	95	3	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	5.00	50.0	43.7	87	57 - 121	50.0	43.7	87	0	30
1,2-Dibromoethane	106-93-4	ND	5.00	50.0	43.1	86	70 - 124	50.0	43.9	88	2	30
1,2-Dichlorobenzene	95-50-1	ND	5.00	50.0	46.3	93	71 - 126	50.0	45.9	92	1	30
1,2-Dichloroethane	107-06-2	ND	5.00	50.0	43.0	86	71 - 129	50.0	42.8	86	1	30
1,2-Dichloroethene(Total)	540-59-0	ND	10.0	100	92.8	93	74 - 128	100	91.1	91	2	30
1,2-Dichloropropane	78-87-5	ND	5.00	50.0	46.7	93	72 - 128	50.0	47.1	94	1	30
1,3,5-Trimethylbenzene	108-67-8	ND	5.00	50.0	49.1	98	71 - 132	50.0	47.8	96	3	30
1,3-Dichlorobenzene	541-73-1	ND	5.00	50.0	45.9	92	74 - 126	50.0	45.4	91	1	30
1,3-Dichloropropane	142-28-9	ND	5.00	50.0	43.5	87	74 - 122	50.0	44.9	90	3	30
1,4-Dichlorobenzene	106-46-7	ND	5.00	50.0	44.8	90	72 - 122	50.0	44.2	88	1	30
2,2-Dichloropropane	594-20-7	ND	5.00	50.0	49.7	99	77 - 124	50.0	47.5	95	5	30
2-Butanone	78-93-3	ND	5.00	50.0	45.9	92	58 - 137	50.0	46.6	93	2	30
2-Chlorotoluene	95-49-8	ND	5.00	50.0	47.7	95	72 - 127	50.0	46.7	93	2	30
2-Hexanone	591-78-6	ND	5.00	50.0	45.2	90	50 - 135	50.0	47.9	96	6	30
4-Chlorotoluene	106-43-4	ND	5.00	50.0	47.3	95	75 - 126	50.0	46.6	93	1	30
4-Isopropyltoluene	99-87-6	ND	5.00	50.0	49.6	99	71 - 129	50.0	48.6	97	2	30
4-Methyl-2-pentanone	108-10-1	ND	5.00	50.0	47.7	95	57 - 132	50.0	51.0	102	7	30
Acetone	67-64-1	ND	5.00	50.0	37.6	75	44 - 156	50.0	39.7	79	5	30
Benzene	71-43-2	ND	5.00	50.0	46.3	93	70 - 129	50.0	45.6	91	2	20
Bromobenzene	108-86-1	ND	5.00	50.0	46.5	93	71 - 120	50.0	45.5	91	2	30
Bromochloromethane	74-97-5	ND	5.00	50.0	46.3	93	76 - 130	50.0	45.1	90	3	30
Bromodichloromethane	75-27-4	ND	5.00	50.0	46.5	93	74 - 125	50.0	45.4	91	2	30
Bromoform	75-25-2	ND	5.00	50.0	41.2	82	64 - 122	50.0	42.4	85	3	30
Bromomethane	74-83-9	ND	5.00	50.0	52.8	106	47 - 138	50.0	52.4	105	1	30
Carbon disulfide	75-15-0	ND	5.00	50.0	48.8	98	69 - 136	50.0	46.8	94	4	30
Carbon tetrachloride	56-23-5	ND	5.00	50.0	39.9	80	76 - 128	50.0	38.7	77	3	30
Chlorobenzene	108-90-7	ND	5.00	50.0	44.8	90	74 - 123	50.0	44.0	88	2	20
Chloroethane	75-00-3	ND	5.00	50.0	47.3	95	62 - 141	50.0	44.3	89	7	30
Chloroform	67-66-3	ND	5.00	50.0	46.0	92	75 - 122	50.0	45.5	91	1	30
Chloromethane	74-87-3	ND	5.00	50.0	41.1	82	59 - 132	50.0	40.0	80	3	30
cis-1,2-Dichloroethene	156-59-2	ND	5.00	50.0	46.7	93	73 - 130	50.0	45.6	91	2	30
cis-1,3-Dichloropropene	10061-01-5	ND	5.00	50.0	47.5	95	71 - 132	50.0	47.3	95	0	30
Dibromochloromethane	124-48-1	ND	5.00	50.0	44.6	89	71 - 123	50.0	44.4	89	0	30
Dibromomethane	74-95-3	ND	5.00	50.0	45.3	91	72 - 129	50.0	44.8	90	1	30
Dichlorodifluoromethane	75-71-8	ND	5.00	50.0	40.6	81	58 - 140	50.0	39.9	80	2	30
Ethylbenzene	100-41-4	ND	5.00	50.0	46.4	93	74 - 126	50.0	45.2	90	3	30
Hexachlorobutadiene	87-68-3	ND	5.00	50.0	47.6	95	61 - 144	50.0	45.2	90	5	30
Isopropylbenzene (Cumene)	98-82-8	ND	5.00	50.0	46.8	94	71 - 125	50.0	47.1	94	1	30
m,p-Xylene	136777-61-2	ND	10.0	100	93.3	93	74 - 126	100	93.2	93	0	30
Methyl iodide	74-88-4	ND	5.00	50.0	46.7	93	57 - 141	50.0	48.4	97	4	30
Methylene chloride	75-09-2	ND	5.00	50.0	44.6	89	68 - 132	50.0	44.9	90	1	30
Naphthalene	91-20-3	ND	5.00	50.0	38.9	78	57 - 138	50.0	40.0	80	3	35
n-Butylbenzene	104-51-8	ND	5.00	50.0	49.1	98	69 - 134	50.0	48.5	97	1	30
n-Propylbenzene	103-65-1	ND	5.00	50.0	48.5	97	75 - 129	50.0	48.0	96	1	30
o-Xylene	95-47-6	ND	5.00	50.0	46.5	93	73 - 130	50.0	46.2	92	1	30
sec-Butylbenzene	135-98-8	ND	5.00	50.0	49.1	98	70 - 136	50.0	48.4	97	1	30
Styrene	100-42-5	ND	5.00	50.0	47.2	94	71 - 127	50.0	46.7	93	1	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	5.00	50.0	46.9	94	71 - 125	50.0	47.3	95	1	30

GC/MS Volatiles QC Summary

Analytical Batch 568782	Client ID	MB568782		LCS568782				LCSD568782				
	GCAL ID	1492357		1492358				1492359				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	09/27/2015 18:11		09/27/2015 16:51				09/27/2015 17:11				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
tert-Butylbenzene	98-06-6	ND	5.00	50.0	48.7	97	72 - 126	50.0	47.7	95	2	30
Tetrachloroethene	127-18-4	ND	5.00	50.0	44.3	89	68 - 128	50.0	44.3	89	0	30
Toluene	108-88-3	ND	5.00	50.0	45.0	90	72 - 120	50.0	44.0	88	2	20
trans-1,2-Dichloroethene	156-60-5	ND	5.00	50.0	46.1	92	69 - 132	50.0	45.5	91	1	30
trans-1,3-Dichloropropene	10061-02-6	ND	5.00	50.0	47.8	96	71 - 131	50.0	47.6	95	0	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	5.00	50.0	42.6	85	56 - 132	50.0	45.1	90	6	30
Trichloroethene	79-01-6	ND	5.00	50.0	44.4	89	76 - 129	50.0	43.2	86	3	20
Trichlorofluoromethane	75-69-4	ND	5.00	50.0	45.2	90	72 - 136	50.0	44.1	88	2	30
Trichlorotrifluoroethane	76-13-1	ND	5.00	50.0	45.1	90	72 - 136	50.0	42.5	85	6	30
Vinyl chloride	75-01-4	ND	5.00	50.0	44.1	88	68 - 132	50.0	42.9	86	3	30
Xylene (total)	1330-20-7	ND	15.0	150	140	93	74 - 127	150	139	93	1	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	50.4	101	50	50	100	71 - 127	50	51.1	102	2	NA
4-Bromofluorobenzene	460-00-4	45.7	91	50	46.7	93	78 - 130	50	47.2	94	1	NA
Dibromofluoromethane	1868-53-7	51.1	102	50	51.7	103	77 - 127	50	51.1	102	1	NA
Toluene d8	2037-26-5	49.3	99	50	49.3	99	76 - 134	50	49.9	100	1	NA

Analytical Batch 568952	Client ID	MB568952		LCS568952				LCSD568952				
	GCAL ID	1493031		1493032				1493033				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	09/29/2015 13:52		09/29/2015 12:31				09/29/2015 12:51				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	5.00	50.0	51.4	103	75 - 124	50.0	49.6	99	4	30
1,1,1-Trichloroethane	71-55-6	ND	5.00	50.0	56.6	113	76 - 126	50.0	54.7	109	3	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.00	50.0	54.6	109	70 - 122	50.0	53.6	107	2	30
1,1,2-Trichloroethane	79-00-5	ND	5.00	50.0	50.1	100	72 - 121	50.0	49.3	99	2	30
1,1-Dichloroethane	75-34-3	ND	5.00	50.0	56.2	112	74 - 127	50.0	53.5	107	5	30
1,1-Dichloroethene	75-35-4	ND	5.00	50.0	57.8	116	69 - 129	50.0	53.0	106	9	20
1,1-Dichloropropene	563-58-6	ND	5.00	50.0	59.0	118	72 - 131	50.0	56.0	112	5	30
1,2,3-Trichloropropane	96-18-4	ND	5.00	50.0	51.2	102	70 - 120	50.0	51.4	103	0	30
1,2,4-Trichlorobenzene	120-82-1	ND	5.00	50.0	46.6	93	61 - 135	50.0	45.6	91	2	30
1,2,4-Trimethylbenzene	95-63-6	ND	5.00	50.0	59.1	118	74 - 125	50.0	55.9	112	6	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	5.00	50.0	50.1	100	57 - 121	50.0	50.2	100	0	30
1,2-Dibromoethane	106-93-4	ND	5.00	50.0	50.0	100	70 - 124	50.0	48.7	97	3	30
1,2-Dichlorobenzene	95-50-1	ND	5.00	50.0	54.7	109	71 - 126	50.0	52.4	105	4	30
1,2-Dichloroethane	107-06-2	ND	5.00	50.0	49.8	100	71 - 129	50.0	49.0	98	2	30
1,2-Dichloroethene(Total)	540-59-0	ND	10.0	100	113	113	74 - 128	100	109	109	4	30
1,2-Dichloropropane	78-87-5	ND	5.00	50.0	55.9	112	72 - 128	50.0	53.1	106	5	30
1,3,5-Trimethylbenzene	108-67-8	ND	5.00	50.0	59.0	118	71 - 132	50.0	56.8	114	4	30
1,3-Dichlorobenzene	541-73-1	ND	5.00	50.0	54.1	108	74 - 126	50.0	51.8	104	4	30
1,3-Dichloropropane	142-28-9	ND	5.00	50.0	51.8	104	74 - 122	50.0	50.0	100	4	30
1,4-Dichlorobenzene	106-46-7	ND	5.00	50.0	53.2	106	72 - 122	50.0	50.8	102	5	30
2,2-Dichloropropane	594-20-7	ND	5.00	50.0	61.0	122	77 - 124	50.0	58.0	116	5	30
2-Butanone	78-93-3	ND	5.00	50.0	53.2	106	58 - 137	50.0	52.4	105	2	30
2-Chlorotoluene	95-49-8	ND	5.00	50.0	57.5	115	72 - 127	50.0	54.8	110	5	30
2-Hexanone	591-78-6	ND	5.00	50.0	53.6	107	50 - 135	50.0	54.6	109	2	30
4-Chlorotoluene	106-43-4	ND	5.00	50.0	57.3	115	75 - 126	50.0	54.3	109	5	30
4-Isopropyltoluene	99-87-6	ND	5.00	50.0	60.6	121	71 - 129	50.0	57.4	115	5	30
4-Methyl-2-pentanone	108-10-1	ND	5.00	50.0	55.1	110	57 - 132	50.0	57.2	114	4	30
Acetone	67-64-1	ND	5.00	50.0	43.7	87	44 - 156	50.0	42.9	86	2	30
Benzene	71-43-2	ND	5.00	50.0	55.3	111	70 - 129	50.0	52.4	105	5	20
Bromobenzene	108-86-1	ND	5.00	50.0	56.2	112	71 - 120	50.0	53.6	107	5	30
Bromochloromethane	74-97-5	ND	5.00	50.0	53.3	107	76 - 130	50.0	50.7	101	5	30
Bromodichloromethane	75-27-4	ND	5.00	50.0	54.3	109	74 - 125	50.0	52.1	104	4	30

GC/MS Volatiles QC Summary

Analytical Batch 568952	Client ID	MB568952		LCS568952				LCSD568952				
	GCAL ID	1493031		1493032				1493033				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	09/29/2015 13:52		09/29/2015 12:31				09/29/2015 12:51				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Bromoform	75-25-2	ND	5.00	50.0	48.1	96	64 - 122	50.0	45.5	91	6	30
Bromomethane	74-83-9	ND	5.00	50.0	65.0	130	47 - 138	50.0	61.6	123	5	30
Carbon disulfide	75-15-0	ND	5.00	50.0	59.9	120	69 - 136	50.0	56.3	113	6	30
Carbon tetrachloride	56-23-5	ND	5.00	50.0	50.0	100	76 - 128	50.0	47.7	95	5	30
Chlorobenzene	108-90-7	ND	5.00	50.0	52.3	105	74 - 123	50.0	49.3	99	6	20
Chloroethane	75-00-3	ND	5.00	50.0	57.4	115	62 - 141	50.0	51.7	103	10	30
Chloroform	67-66-3	ND	5.00	50.0	54.5	109	75 - 122	50.0	52.2	104	4	30
Chloromethane	74-87-3	ND	5.00	50.0	52.1	104	59 - 132	50.0	49.6	99	5	30
cis-1,2-Dichloroethene	156-59-2	ND	5.00	50.0	55.7	111	73 - 130	50.0	53.3	107	4	30
cis-1,3-Dichloropropene	10061-01-5	ND	5.00	50.0	56.3	113	71 - 132	50.0	53.9	108	4	30
Dibromochloromethane	124-48-1	ND	5.00	50.0	51.9	104	71 - 123	50.0	49.8	100	4	30
Dibromomethane	74-95-3	ND	5.00	50.0	51.9	104	72 - 129	50.0	49.2	98	5	30
Dichlorodifluoromethane	75-71-8	ND	5.00	50.0	56.5	113	58 - 140	50.0	53.5	107	5	30
Ethylbenzene	100-41-4	ND	5.00	50.0	54.1	108	74 - 126	50.0	51.5	103	5	30
Hexachlorobutadiene	87-68-3	ND	5.00	50.0	58.5	117	61 - 144	50.0	55.3	111	6	30
Isopropylbenzene (Cumene)	98-82-8	ND	5.00	50.0	56.5	113	71 - 125	50.0	53.7	107	5	30
m,p-Xylene	136777-61-2	ND	10.0	100	111	111	74 - 126	100	105	105	6	30
Methyl iodide	74-88-4	ND	5.00	50.0	59.0	118	57 - 141	50.0	53.6	107	10	30
Methylene chloride	75-09-2	ND	5.00	50.0	54.4	109	68 - 132	50.0	53.3	107	2	30
Naphthalene	91-20-3	ND	5.00	50.0	42.3	85	57 - 138	50.0	42.5	85	1	35
n-Butylbenzene	104-51-8	ND	5.00	50.0	61.8	124	69 - 134	50.0	57.5	115	7	30
n-Propylbenzene	103-65-1	ND	5.00	50.0	59.6	119	75 - 129	50.0	56.6	113	5	30
o-Xylene	95-47-6	ND	5.00	50.0	54.6	109	73 - 130	50.0	51.9	104	5	30
sec-Butylbenzene	135-98-8	ND	5.00	50.0	60.4	121	70 - 136	50.0	57.2	114	5	30
Styrene	100-42-5	ND	5.00	50.0	55.5	111	71 - 127	50.0	52.5	105	6	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	5.00	50.0	55.1	110	71 - 125	50.0	53.8	108	2	30
tert-Butylbenzene	98-06-6	ND	5.00	50.0	60.2	120	72 - 126	50.0	57.4	115	5	30
Tetrachloroethene	127-18-4	ND	5.00	50.0	53.7	107	68 - 128	50.0	51.1	102	5	30
Toluene	108-88-3	ND	5.00	50.0	53.2	106	72 - 120	50.0	49.9	100	6	20
trans-1,2-Dichloroethene	156-60-5	ND	5.00	50.0	57.5	115	69 - 132	50.0	55.5	111	4	30
trans-1,3-Dichloropropene	10061-02-6	ND	5.00	50.0	55.1	110	71 - 131	50.0	52.9	106	4	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	5.00	50.0	50.4	101	56 - 132	50.0	49.5	99	2	30
Trichloroethene	79-01-6	ND	5.00	50.0	52.6	105	76 - 129	50.0	50.8	102	3	20
Trichlorofluoromethane	75-69-4	ND	5.00	50.0	58.8	118	72 - 136	50.0	53.9	108	9	30
Trichlorotrifluoroethane	76-13-1	ND	5.00	50.0	58.3	117	72 - 136	50.0	53.4	107	9	30
Vinyl chloride	75-01-4	ND	5.00	50.0	56.3	113	68 - 132	50.0	53.2	106	6	30
Xylene (total)	1330-20-7	ND	15.0	150	165	110	74 - 127	150	157	105	5	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	51.2	102	50	49.9	100	71 - 127	50	50.1	100	0	NA
4-Bromofluorobenzene	460-00-4	44.4	89	50	46.7	93	78 - 130	50	45.6	91	2	NA
Dibromofluoromethane	1868-53-7	50.5	101	50	50.6	101	77 - 127	50	49.8	100	2	NA
Toluene d8	2037-26-5	48.6	97	50	48.4	97	76 - 134	50	49	98	1	NA

Analytical Batch 569109	Client ID	MB569109		LCS569109				LCSD569109				
	GCAL ID	1493736		1493737				1493738				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	09/30/2015 19:16		09/30/2015 17:52				09/30/2015 18:13				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,2-Dichloroethene(Total)	540-59-0	ND	10.0	100	98.5	99	74 - 128	100	103	103	4	30
cis-1,2-Dichloroethene	156-59-2	ND	5.00	50.0	49.9	100	73 - 130	50.0	52.2	104	5	30
Tetrachloroethene	127-18-4	ND	5.00	50.0	50.6	101	68 - 128	50.0	51.7	103	2	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	50.4	101	50	47.8	96	71 - 127	50	49.8	100	4	NA
4-Bromofluorobenzene	460-00-4	49.2	98	50	50.8	102	78 - 130	50	50.1	100	1	NA

GC/MS Volatiles QC Summary

Analytical Batch 569109	Client ID	MB569109		LCS569109				LCSD569109				
	GCAL ID	1493736		1493737				1493738				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	09/30/2015 19:16		09/30/2015 17:52				09/30/2015 18:13				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Dibromofluoromethane	1868-53-7	50.4	101	50	49	98	77 - 127	50	49.9	100	2	NA
Toluene d8	2037-26-5	50.4	101	50	50	100	76 - 134	50	50.1	100	0	NA

Analytical Batch 569124	Client ID	MB569124		LCS569124				LCSD569124				
	GCAL ID	1493765		1493766				1493767				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/01/2015 01:35		10/01/2015 00:14				10/01/2015 00:34				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	5.00	50.0	51.3	103	75 - 124	50.0	49.3	99	4	30
1,1,1-Trichloroethane	71-55-6	ND	5.00	50.0	54.4	109	76 - 126	50.0	51.9	104	5	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.00	50.0	56.8	114	70 - 122	50.0	56.7	113	0	30
1,1,2-Trichloroethane	79-00-5	ND	5.00	50.0	50.9	102	72 - 121	50.0	49.6	99	3	30
1,1-Dichloroethane	75-34-3	ND	5.00	50.0	53.5	107	74 - 127	50.0	51.6	103	4	30
1,1-Dichloroethene	75-35-4	ND	5.00	50.0	57.2	114	69 - 129	50.0	55.5	111	3	20
1,1-Dichloropropene	563-58-6	ND	5.00	50.0	55.7	111	72 - 131	50.0	52.8	106	5	30
1,2,3-Trichloropropane	96-18-4	ND	5.00	50.0	52.0	104	70 - 120	50.0	53.7	107	3	30
1,2,4-Trichlorobenzene	120-82-1	ND	5.00	50.0	47.2	94	61 - 135	50.0	45.7	91	3	30
1,2,4-Trimethylbenzene	95-63-6	ND	5.00	50.0	57.4	115	74 - 125	50.0	54.9	110	4	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	5.00	50.0	51.4	103	57 - 121	50.0	50.9	102	1	30
1,2-Dibromoethane	106-93-4	ND	5.00	50.0	50.4	101	70 - 124	50.0	49.0	98	3	30
1,2-Dichlorobenzene	95-50-1	ND	5.00	50.0	55.3	111	71 - 126	50.0	53.2	106	4	30
1,2-Dichloroethane	107-06-2	ND	5.00	50.0	47.9	96	71 - 129	50.0	47.1	94	2	30
1,2-Dichloroethene(Total)	540-59-0	ND	10.0	100	107	107	74 - 128	100	103	103	4	30
1,2-Dichloropropane	78-87-5	ND	5.00	50.0	54.0	108	72 - 128	50.0	51.7	103	4	30
1,3,5-Trimethylbenzene	108-67-8	ND	5.00	50.0	57.7	115	71 - 132	50.0	55.9	112	3	30
1,3-Dichlorobenzene	541-73-1	ND	5.00	50.0	54.4	109	74 - 126	50.0	51.8	104	5	30
1,3-Dichloropropane	142-28-9	ND	5.00	50.0	51.4	103	74 - 122	50.0	50.5	101	2	30
1,4-Dichlorobenzene	106-46-7	ND	5.00	50.0	52.8	106	72 - 122	50.0	50.5	101	4	30
2,2-Dichloropropane	594-20-7	ND	5.00	50.0	58.8	118	77 - 124	50.0	55.0	110	7	30
2-Butanone	78-93-3	ND	5.00	50.0	52.4	105	58 - 137	50.0	53.3	107	2	30
2-Chlorotoluene	95-49-8	ND	5.00	50.0	55.8	112	72 - 127	50.0	53.3	107	5	30
2-Hexanone	591-78-6	ND	5.00	50.0	54.5	109	50 - 135	50.0	53.8	108	1	30
4-Chlorotoluene	106-43-4	ND	5.00	50.0	55.6	111	75 - 126	50.0	53.8	108	3	30
4-Isopropyltoluene	99-87-6	ND	5.00	50.0	59.6	119	71 - 129	50.0	56.0	112	6	30
4-Methyl-2-pentanone	108-10-1	ND	5.00	50.0	55.1	110	57 - 132	50.0	55.8	112	1	30
Acetone	67-64-1	ND	5.00	50.0	42.7	85	44 - 156	50.0	43.3	87	1	30
Benzene	71-43-2	ND	5.00	50.0	53.1	106	70 - 129	50.0	50.9	102	4	20
Bromobenzene	108-86-1	ND	5.00	50.0	53.4	107	71 - 120	50.0	52.2	104	2	30
Bromochloromethane	74-97-5	ND	5.00	50.0	49.4	99	76 - 130	50.0	49.2	98	0	30
Bromodichloromethane	75-27-4	ND	5.00	50.0	52.9	106	74 - 125	50.0	51.0	102	4	30
Bromoform	75-25-2	ND	5.00	50.0	48.8	98	64 - 122	50.0	47.6	95	2	30
Bromomethane	74-83-9	ND	5.00	50.0	61.4	123	47 - 138	50.0	59.4	119	3	30
Carbon disulfide	75-15-0	ND	5.00	50.0	60.8	122	69 - 136	50.0	57.8	116	5	30
Carbon tetrachloride	56-23-5	ND	5.00	50.0	47.3	95	76 - 128	50.0	44.7	89	6	30
Chlorobenzene	108-90-7	ND	5.00	50.0	52.0	104	74 - 123	50.0	49.3	99	5	20
Chloroethane	75-00-3	ND	5.00	50.0	59.9	120	62 - 141	50.0	58.0	116	3	30
Chloroform	67-66-3	ND	5.00	50.0	52.7	105	75 - 122	50.0	51.2	102	3	30
Chloromethane	74-87-3	ND	5.00	50.0	48.9	98	59 - 132	50.0	45.5	91	7	30
cis-1,2-Dichloroethene	156-59-2	ND	5.00	50.0	53.1	106	73 - 130	50.0	51.7	103	3	30
cis-1,3-Dichloropropene	10061-01-5	ND	5.00	50.0	55.4	111	71 - 132	50.0	53.7	107	3	30
Dibromochloromethane	124-48-1	ND	5.00	50.0	52.3	105	71 - 123	50.0	50.5	101	4	30
Dibromomethane	74-95-3	ND	5.00	50.0	50.3	101	72 - 129	50.0	49.5	99	2	30
Dichlorodifluoromethane	75-71-8	ND	5.00	50.0	55.7	111	58 - 140	50.0	51.4	103	8	30
Ethylbenzene	100-41-4	ND	5.00	50.0	53.7	107	74 - 126	50.0	50.3	101	7	30

GC/MS Volatiles QC Summary

Analytical Batch 569124	Client ID	MB569124	LCS569124	LCSD569124
	GCAL ID	1493765	1493766	1493767
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	10/01/2015 01:35	10/01/2015 00:14	10/01/2015 00:34
	Matrix	Water	Water	Water

EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Hexachlorobutadiene	87-68-3	ND	5.00	50.0	58.0	116	61 - 144	50.0	53.7	107	8	30
Isopropylbenzene (Cumene)	98-82-8	ND	5.00	50.0	55.3	111	71 - 125	50.0	52.2	104	6	30
m,p-Xylene	136777-61-2	ND	10.0	100	109	109	74 - 126	100	102	102	7	30
Methyl iodide	74-88-4	ND	5.00	50.0	50.3	101	57 - 141	50.0	52.5	105	4	30
Methylene chloride	75-09-2	ND	5.00	50.0	51.6	103	68 - 132	50.0	51.0	102	1	30
Naphthalene	91-20-3	ND	5.00	50.0	42.4	85	57 - 138	50.0	42.8	86	1	35
n-Butylbenzene	104-51-8	ND	5.00	50.0	60.4	121	69 - 134	50.0	55.9	112	8	30
n-Propylbenzene	103-65-1	ND	5.00	50.0	57.0	114	75 - 129	50.0	55.0	110	4	30
o-Xylene	95-47-6	ND	5.00	50.0	54.2	108	73 - 130	50.0	50.8	102	6	30
sec-Butylbenzene	135-98-8	ND	5.00	50.0	59.0	118	70 - 136	50.0	55.5	111	6	30
Styrene	100-42-5	ND	5.00	50.0	54.4	109	71 - 127	50.0	51.4	103	6	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	5.00	50.0	52.6	105	71 - 125	50.0	52.0	104	1	30
tert-Butylbenzene	98-06-6	ND	5.00	50.0	58.4	117	72 - 126	50.0	55.2	110	6	30
Tetrachloroethene	127-18-4	ND	5.00	50.0	53.7	107	68 - 128	50.0	50.5	101	6	30
Toluene	108-88-3	ND	5.00	50.0	52.7	105	72 - 120	50.0	49.9	100	5	20
trans-1,2-Dichloroethene	156-60-5	ND	5.00	50.0	53.9	108	69 - 132	50.0	51.5	103	5	30
trans-1,3-Dichloropropene	10061-02-6	ND	5.00	50.0	55.1	110	71 - 131	50.0	53.9	108	2	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	5.00	50.0	49.0	98	56 - 132	50.0	49.6	99	1	30
Trichloroethene	79-01-6	ND	5.00	50.0	51.3	103	76 - 129	50.0	48.9	98	5	20
Trichlorofluoromethane	75-69-4	ND	5.00	50.0	60.3	121	72 - 136	50.0	55.6	111	8	30
Trichlorotrifluoroethane	76-13-1	ND	5.00	50.0	59.3	119	72 - 136	50.0	52.9	106	11	30
Vinyl chloride	75-01-4	ND	5.00	50.0	54.5	109	68 - 132	50.0	54.3	109	0	30
Xylene (total)	1330-20-7	ND	15.0	150	163	109	74 - 127	150	153	102	6	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	50.8	102	50	49	98	71 - 127	50	51	102	4	NA
4-Bromofluorobenzene	460-00-4	43.6	87	50	46.7	93	78 - 130	50	45.1	90	3	NA
Dibromofluoromethane	1868-53-7	51.2	102	50	50.3	101	77 - 127	50	50.8	102	1	NA
Toluene d8	2037-26-5	48.5	97	50	49.7	99	76 - 134	50	49.6	99	0	NA

GC Volatiles QC Summary

Analytical Batch 568892	Client ID	MB568892		LCS568892				LCSD568892				
	GCAL ID	1492709		1492710				1492711				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	09/29/2015 06:56		09/29/2015 07:03				09/29/2015 07:09				
	Matrix	Water		Water				Water				
EPA RSK-175		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Ethane	74-84-0	ND	1.00	3.28	3.41	104	45 - 128	3.28	3.17	97	7	29
Ethene	74-85-1	ND	1.00	3.06	3.15	103	45 - 134	3.06	2.91	95	8	25
Methane	74-82-8	ND	2.00	17.5	16.8	96	39 - 120	17.5	15.8	90	6	27
Surrogate												
Propene	115-07-1	30.1	74	40.5	33.3	82	40 - 143	40.5	30	74	10	NA

Inorganics QC Summary

Analytical Batch	Client ID	MB568576		LCS568576			
569097	GCAL ID	1491484		1491485			
Prep Batch	Sample Type	MB		LCS			
568576	Prep Date	09/29/2015 16:15		09/29/2015 16:15			
Prep Method	Analysis Date	09/30/2015 11:12		09/30/2015 13:32			
EPA 3005A Dissolved	Matrix	Water		Water			
EPA 6020A Dissolved		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R
Iron	7439-89-6	ND	100	5000	5120	102	80 - 120
Manganese	7439-96-5	ND	5.00	50.0	53.0	106	80 - 120

Analytical Batch	Client ID	LF01-MW01D-DIS		1491147MS				1491147MSD				
569097	GCAL ID	21509241902		1491486				1491487				
Prep Batch	Sample Type	SAMPLE		MS				MSD				
568576	Prep Date	09/29/2015 16:15		09/29/2015 16:15				09/29/2015 16:15				
Prep Method	Analysis Date	09/30/2015 13:39		09/30/2015 13:46				09/30/2015 13:52				
EPA 3005A Dissolved	Matrix	Water		Water				Water				
EPA 6020A Dissolved		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Manganese	7439-96-5	148	5.00	50.0	196	96	80 - 120	50.0	195	92	1	20

Analytical Batch	Client ID	LF01-MW01D-DIS		1491147MS				1491147MSD				
569097	GCAL ID	21509241902		1491486				1491487				
Prep Batch	Sample Type	SAMPLE		MS				MSD				
568576	Prep Date	09/29/2015 16:15		09/29/2015 16:15				09/29/2015 16:15				
Prep Method	Analysis Date	09/30/2015 11:19		09/30/2015 11:22				09/30/2015 11:30				
EPA 3005A Dissolved	Matrix	Water		Water				Water				
EPA 6020A Dissolved		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Iron	7439-89-6	7820	2000	5000	14400	**131***	80 - 120	5000	14300	**129***	1	20

General Chemistry QC Summary

Analytical Batch 568758		Client ID	LCS568758			
		GCAL ID	1492333			
		Sample Type	LCS			
		Prep Date	NA			
		Analysis Date	09/27/2015 12:57			
		Matrix	Water			
SM 2320 B-2011			Spike Added	Result	%R	Control Limits%R
Total Alkalinity	000000-00-5		200	197	99	90 - 110

Analytical Batch 569040		Client ID	LCS569040				LCSD569040				
		GCAL ID	1493464				1493465				
		Sample Type	LCS				LCSD				
		Prep Date	NA				NA				
		Analysis Date	09/30/2015 09:14				09/30/2015 09:14				
		Matrix	Water				Water				
SM 2320 B-2011			Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Total Alkalinity	000000-00-5		10.0	10.1	101	90 - 110	10.0	10.3	103	2	11

Analytical Batch 568647		Client ID	MB568647		LCS568647			
		GCAL ID	1491869		1491870			
		Sample Type	MB		LCS			
		Prep Date	NA		NA			
		Analysis Date	09/25/2015 17:37		09/25/2015 17:19			
		Matrix	Water		Water			
EPA 9056A			Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R
Chloride	16887-00-6		ND	0.200	2.50	2.38	95	80 - 120
Sulfate	14808-79-8		ND	0.200	2.50	2.48	99	80 - 120

Analytical Batch 568647		Client ID	Sentinel 1		1488855MS				1488855MSD				
		GCAL ID	21509175002		1491883				1491884				
		Sample Type	SAMPLE		MS				MSD				
		Prep Date	NA		NA				NA				
		Analysis Date	09/25/2015 18:12		09/25/2015 18:30				09/25/2015 18:47				
		Matrix	Water		Water				Water				
EPA 9056A			Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Sulfate	14808-79-8		0.170	0.200	2.50	2.58	96	80 - 120	2.50	2.53	95	2	15

Analytical Batch 568885		Client ID	MB568885		LCS568885			
		GCAL ID	1492698		1492699			
		Sample Type	MB		LCS			
		Prep Date	NA		NA			
		Analysis Date	09/28/2015 20:29		09/28/2015 20:12			
		Matrix	Water		Water			
EPA 9056A			Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R
Chloride	16887-00-6		ND	0.200	2.50	2.71	108	80 - 120

Analytical Batch 569006		Client ID	MB569006		LCS569006			
		GCAL ID	1493369		1493370			
		Sample Type	MB		LCS			
		Prep Date	NA		NA			
		Analysis Date	09/30/2015 06:03		09/30/2015 05:46			
		Matrix	Water		Water			
EPA 9056A			Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R
Chloride	16887-00-6		ND	0.200	2.50	2.57	103	80 - 120

General Chemistry QC Summary

Analytical Batch 568727	Client ID	MB568727	LCS568727
	GCAL ID	1492214	1492215
	Sample Type	MB	LCS
	Prep Date	NA	NA
	Analysis Date	09/26/2015 18:42	09/26/2015 18:20
	Matrix	Water	Water

GCAL SOP WL-070		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R
Acetic Acid	64-19-7	ND	0.500	10.0	9.62	96	90 - 110
Butyric Acid	107-92-6	ND	0.500	10.0	10.4	104	90 - 110
Formic Acid	64-18-6	ND	0.500	10.0	10.8	108	90 - 110
Lactic Acid	50-21-5	ND	0.500	10.0	9.09	91	90 - 110
Propionic Acid	79-09-4	ND	0.500	10.0	10.2	102	90 - 110
Pyruvic Acid	127-17-3	ND	0.500	10.0	9.17	92	90 - 110

Analytical Batch 568727	Client ID	MW-17@30	1491841MS	1491841MSD
	GCAL ID	21509253404	1492216	1492217
	Sample Type	SAMPLE	MS	MSD
	Prep Date	NA	NA	NA
	Analysis Date	09/26/2015 19:27	09/26/2015 19:49	09/26/2015 20:11
	Matrix	Water	Water	Water

GCAL SOP WL-070		Units Result	mg/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Acetic Acid	64-19-7	0.446	0.500	10.0	10.5	101	90 - 110	10.0	10.6	101	1	20
Butyric Acid	107-92-6	0.00	0.500	10.0	10.5	105	90 - 110	10.0	11.0	110	5	20
Formic Acid	64-18-6	0.00	0.500	10.0	10.7	107	90 - 110	10.0	10.7	107	0	20
Lactic Acid	50-21-5	0.00	0.500	10.0	9.59	96	90 - 110	10.0	9.51	95	1	20
Propionic Acid	79-09-4	0.00	0.500	10.0	8.86	**89***	90 - 110	10.0	8.94	**89***	1	20
Pyruvic Acid	127-17-3	0.00	0.500	10.0	8.35	**84***	90 - 110	10.0	8.30	**83***	1	20

Analytical Batch 568959	Client ID	MB568959	LCS568959
	GCAL ID	1493145	1493146
	Sample Type	MB	LCS
	Prep Date	NA	NA
	Analysis Date	09/29/2015 17:13	09/29/2015 17:11
	Matrix	Water	Water

EPA 353.2 Rev. 2 Nitrate		Units Result	mg/L-N LOQ	Spike Added	Result	%R	Control Limits%R
Nitrate/Nitrite	C-005	ND	0.010	0.500	0.470	94	89.5 - 110.5

Analytical Batch 568959	Client ID	SA-TU011-MW003-G-1	SA-TU011-MW003-G-1-MS	SA-TU011-MW003-G-1-MSD
	GCAL ID	21509261701	21509261702	21509261703
	Sample Type	SAMPLE	MS	MSD
	Prep Date	NA	NA	NA
	Analysis Date	09/29/2015 17:37	09/29/2015 17:39	09/29/2015 17:40
	Matrix	Water	Water	Water

EPA 353.2 Rev. 2 Nitrate		Units Result	mg/L-N LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Nitrate/Nitrite	C-005	0.213	0.200	10.0	9.87	97	89.5 - 110.5	10.0	9.76	96	1	25

GCAL ANALYTICAL LABORATORIES, LLC

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

CHAIN OF CUSTODY RECORD

Client ID: 4912 - Clearwater Environmental Resources

SDG: 215092534

Report to:
Client: Clearwater Env'l Resources
Address: 3870 Peachtree Industrial Blvd Ste. 340139, Duluth, GA 30096
Contact: Jack Wintle
Phone: 678-491-4601
E-mail: jack.wintle@clearwaterenv.net

Bill to:
Client: SAME
Address:
Contact:
Phone:
E-mail:

P.O. Number: —
Project Name/Number: Rayloc Groundwater Sampling
Sampled By: Jack Wintle

GCAL use only:
Custody Seal used ☐ yes ☐ no intact ☐ yes ☐ no
Temperature °C 3.3 E24

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	No Containers	EPA Method 8260B HCL	Volatile Fatty Acids None	Methane/Ethane/Ethene HCL	Dissolved Iron/Manganese None	Alkalinity None	Chloride/Sulfate None	Nitrate/Nitrite H_2SO_4	Total Iron/Manganese HNO_3	Preservative
W	9/21/15	0935		X	MW-7@30	~~3~~ 3 SW	X								1
		1409			MW-12@60										2
		1204			MW-15@30										3
		1020			MW-17@30	12 ~~13~~ 3 SW	X	X	X	X	X	X	X		4
		1127			~~MW-17@30~~ SW MW-19@30	3									5
		1445			MW-24@30	12 ~~13~~ 3 SW	X	X	X	X	X	X	X		6
W	9/24/15	—	—	—	Trip Blank	3	X								7

Air Bill No: 7745 8541 4332

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☒ Standard (Per Contract/Quote)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Jack Wintle	9/24/15	8am	HUGO AVEZ	9/24/15	9:30
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
HUGO AVEZ	9/24/15		FedEx	9/24/15	

Note: Page 1 of 1
FedEx Courier 9/25/15 1017

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

GCAL ANALYTICAL LABORATORIES, LLC

CHAIN OF CUSTODY RECORD

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

Client ID: 4912 - Clearwater Environmental Resources

SDG: 215092534

Report to:
Client: Clearwater Env. Rscs.
Address: 3870 Peachtree Ind. Blvd Ste 340139, Duluth GA 30096
Contact: Jack Wintle
Phone: 678 491-4601
E-mail: jack.wintle@clearwaterenv.net

Bill to:
Client: SAME
Address:
Contact:
Phone:
E-mail:

P.O. Number

Project Name/Number: Raytoc GW Sampling

Sampled By: Jack Wintle

GCAL use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 3.3 EZ4

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	JAW	No Containers	VOC 8260B HCl	Volatile Fatty Acids —	Methane/Ethane/Ethene HCl	Dissolved Iron/Manganese	Alkalinity —	Chloride/Sulfate —	Nitrate/Nitrite H2SO4	Ferrous —	Preservative
W	9/22	8:27		X	PT-3 @ 60'	11	15	X	X	X	X	X	X	X		8
	9/22	9:41			MW-20 @ 60'	3	3									9
	9/23	12:06			MW-21 @ 60'	12	13		X	X	X	X	X	X		10
	9/22	12:48			MW-22 @ 60'	3	3									11
	9/22	10:48			MW-23 @ 60'	12	13		X	X	X	X	X	X		12
	9/25				Trip Blank	3	3	X								13

Air Bill No: 774585414332

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☒ Standard (Per Contract/Quote)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Jack Wintle	9/24	8am	HUGO ANEZ	9/24/15	9:39
HUGO ANEZ	9/24/15		FedEx	9/24/15	
FedEx	9/25/15	1017		9/25/15	1017

Note:

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

215092534

SAMPLE DELIVERY GROUP 215092534	
Client PM SAK 4912 - Clearwater Environmental Resources	**Transport Method** FEDEX
Profile Number 259985	**Received By** Lofton, Katie E.
Line Item(s) 1 - VOC	**Receive Date(s)** 09/25/15

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☑	☐	☐
Was preservative added to any container at the lab?	☐	☑	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☑	☐	☐
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☑	☐	☐
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑	☐	☐

COOLERS

Airbill	Thermometer ID: E24	Temp(°C)
7745 8541 4332		3.3

DISCREPANCIES

None

LAB PRESERVATIONS

None

NOTES

Revision 1.4

Page 1 of 1

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 10/29/2015

GCAL Report 215101221

Project Rayloc

Deliver To	***Report cc***
Jack Wintle Clearwater Env. Resources Peachtree Industrial blvd Duluth, GA 30096 678-491-4601	Jack Wintle, Clearwater Env. Resources

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
DL	Diluted analysis – when appended to Client Sample ID
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
00:01	Reported as a time equivalent to 12:00 AM

Reporting Flags that may be Utilized in this Report

J or I	Indicates the result is between the MDL and LOQ
J	DOD flag on analyte in the parent sample for MS/MSD outside acceptance criteria
U	Indicates the compound was analyzed for but not detected
B or V	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*****	Indicates a non-compliant or not applicable QC recovery or RPD – see narrative
E	The result is estimated because it exceeded the instrument calibration range
E	Metals - % diference for the serial dilution is > 10%

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC Institute standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____
Authorized Signature
GCAL Report 215101221

Case Narrative

Client: Clearwater Environmental Resources **Report:** 215101221

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

This report was revised 10/29/15. The LOQ for Vinyl chloride was lowered to 2.0 ug/L. This lower limit is supported by a low level standard included in the initial calibration curve and the quarterly LOQ check.

VOLATILES MASS SPECTROMETRY

In the EPA 8260B analysis, several samples had to be diluted to bracket the concentration of target compounds within the calibration range of the instrument. The dilution is reflected in elevated reporting limits.

Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21510122101	MW-1	Water	10/06/2015 00:00	10/10/2015 09:56
21510122102	MW-2	Water	10/07/2015 08:20	10/10/2015 09:56
21510122103	MW-3	Water	10/06/2015 09:50	10/10/2015 09:56
21510122104	MW-4	Water	10/06/2015 10:27	10/10/2015 09:56
21510122105	MW-5A	Water	10/06/2015 11:24	10/10/2015 09:56
21510122106	MW-6A	Water	10/06/2015 12:47	10/10/2015 09:56
21510122107	MW-7	Water	10/06/2015 15:32	10/10/2015 09:56
21510122108	MW-8	Water	10/06/2015 15:06	10/10/2015 09:56
21510122109	MW-9	Water	10/06/2015 14:42	10/10/2015 09:56
21510122110	MW-10	Water	10/07/2015 11:15	10/10/2015 09:56
21510122111	MW-12	Water	10/07/2015 15:13	10/10/2015 09:56
21510122112	MW-13	Water	10/07/2015 14:04	10/10/2015 09:56
21510122113	MW-15	Water	10/07/2015 10:48	10/10/2015 09:56
21510122114	MW-16	Water	10/07/2015 10:37	10/10/2015 09:56
21510122115	MW-17	Water	10/07/2015 09:35	10/10/2015 09:56
21510122116	MW-18 @ 60'	Water	10/08/2015 09:59	10/10/2015 09:56
21510122117	MW-19	Water	10/07/2015 10:05	10/10/2015 09:56
21510122118	MW-24	Water	10/07/2015 14:22	10/10/2015 09:56
21510122119	RAD-4 @ 98'	Water	10/08/2015 11:37	10/10/2015 09:56
21510122120	RAD-5 @ 85'	Water	10/08/2015 08:40	10/10/2015 09:56
21510122121	TRIP BLANK	Water	10/08/2015 12:00	10/10/2015 09:56

Summary of Compounds Detected

MW-6A

Collect Date 10/06/2015 12:47 **GCAL ID** 21510122106
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	20.4	5.00	ug/L

MW-7

Collect Date 10/06/2015 15:32 **GCAL ID** 21510122107
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	42.2	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	42.2	5.00	ug/L
127-18-4	Tetrachloroethene	163	5.00	ug/L
79-01-6	Trichloroethene	34.7	5.00	ug/L

MW-12

Collect Date 10/07/2015 15:13 **GCAL ID** 21510122111
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	33.6	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	31.4	5.00	ug/L
127-18-4	Tetrachloroethene	694	50.0	ug/L
79-01-6	Trichloroethene	13.4	5.00	ug/L

MW-15

Collect Date 10/07/2015 10:48 **GCAL ID** 21510122113
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	19.2	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	19.2	5.00	ug/L
127-18-4	Tetrachloroethene	5.23	5.00	ug/L
75-01-4	Vinyl chloride	55.2	2.00	ug/L

Summary of Compounds Detected

MW-16

Collect Date 10/07/2015 10:37 **GCAL ID** 21510122114
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
156-59-2	cis-1,2-Dichloroethene	8.15	5.00	ug/L
127-18-4	Tetrachloroethene	14.2	5.00	ug/L

MW-17

Collect Date 10/07/2015 09:35 **GCAL ID** 21510122115
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	430	200	ug/L
156-59-2	cis-1,2-Dichloroethene	409	100	ug/L
127-18-4	Tetrachloroethene	1140	100	ug/L
79-01-6	Trichloroethene	210	100	ug/L
75-01-4	Vinyl chloride	6.65	2.00	ug/L

MW-18 @ 60'

Collect Date 10/08/2015 09:59 **GCAL ID** 21510122116
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
156-59-2	cis-1,2-Dichloroethene	9.58	5.00	ug/L
127-18-4	Tetrachloroethene	86.0	5.00	ug/L

MW-19

Collect Date 10/07/2015 10:05 **GCAL ID** 21510122117
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	61.3	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	61.3	5.00	ug/L
127-18-4	Tetrachloroethene	8.12	5.00	ug/L
75-01-4	Vinyl chloride	12.0	2.00	ug/L

Summary of Compounds Detected

MW-24

Collect Date 10/07/2015 14:22 **GCAL ID** 21510122118
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	536	50.0	ug/L
156-59-2	cis-1,2-Dichloroethene	536	25.0	ug/L
127-18-4	Tetrachloroethene	484	25.0	ug/L
79-01-6	Trichloroethene	123	5.00	ug/L

RAD-4 @ 98'

Collect Date 10/08/2015 11:37 **GCAL ID** 21510122119
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	360	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	377	25.0	ug/L

RAD-5 @ 85'

Collect Date 10/08/2015 08:40 **GCAL ID** 21510122120
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

CAS#	Parameter	Result	LOQ	Units
75-35-4	1,1-Dichloroethene	5.68	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	9.51	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	4070	1000	ug/L
156-59-2	cis-1,2-Dichloroethene	4070	500	ug/L
127-18-4	Tetrachloroethene	841	500	ug/L
108-88-3	Toluene	5.24	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	24.6	5.00	ug/L
75-01-4	Vinyl chloride	8.53	2.00	ug/L

Sample Results

MW-1	**Collect Date**	10/06/2015 00:00	**GCAL ID**	21510122101
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 17:27	CLH	570218

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L

Sample Results

MW-1

Collect Date 10/06/2015 00:00 **GCAL ID** 21510122101
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 17:27	CLH	570218

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	48.6	ug/L	97	77 - 127
2037-26-5	Toluene d8	50	50.8	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.1	ug/L	96	71 - 127

MW-2

Collect Date 10/07/2015 08:20 **GCAL ID** 21510122102
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 17:50	CLH	570218

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L

Sample Results

MW-2	**Collect Date**	10/07/2015 08:20	**GCAL ID**	21510122102
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 17:50	CLH	570218

CAS#	Parameter	Result	LOQ	Units
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L

Sample Results

MW-2

Collect Date 10/07/2015 08:20 **GCAL ID** 21510122102
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 17:50	CLH	570218

CAS#	Parameter	Result	LOQ	Units
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.7	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	49.4	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	50.3	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49	ug/L	98	71 - 127

MW-3

Collect Date 10/06/2015 09:50 **GCAL ID** 21510122103
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 18:12	CLH	570218

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L

Sample Results

MW-3	**Collect Date**	10/06/2015 09:50	**GCAL ID**	21510122103
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 18:12	CLH	570218

CAS#	Parameter	Result	LOQ	Units
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L

Sample Results

MW-3

Collect Date 10/06/2015 09:50 **GCAL ID** 21510122103
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 18:12	CLH	570218

CAS#	Parameter	Result	LOQ	Units
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.3	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	49.6	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	52.2	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.1	ug/L	96	71 - 127

MW-4

Collect Date 10/06/2015 10:27 **GCAL ID** 21510122104
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 18:35	CLH	570218

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L

Sample Results

MW-4	**Collect Date**	10/06/2015 10:27	**GCAL ID**	21510122104
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 18:35	CLH	570218

CAS#	Parameter	Result	LOQ	Units
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L

Sample Results

MW-4

Collect Date	10/06/2015 10:27	**GCAL ID**	21510122104
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 18:35	CLH	570218

CAS#	Parameter	Result	LOQ	Units
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	48.1	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	50	50.6	ug/L	101	77 - 127
2037-26-5	Toluene d8	50	50.5	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.9	ug/L	100	71 - 127

MW-5A

Collect Date	10/06/2015 11:24	**GCAL ID**	21510122105
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 18:58	CLH	570218

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L

Sample Results

MW-5A	**Collect Date**	10/06/2015 11:24	**GCAL ID**	21510122105
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 18:58	CLH	570218

CAS#	Parameter	Result	LOQ	Units
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L

Sample Results

MW-5A

Collect Date 10/06/2015 11:24 **GCAL ID** 21510122105
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 18:58	CLH	570218

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.2	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	49.5	ug/L	99	77 - 127
2037-26-5	Toluene d8	50	50.2	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.1	ug/L	98	71 - 127

MW-6A

Collect Date 10/06/2015 12:47 **GCAL ID** 21510122106
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 19:20	CLH	570218

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L

Sample Results

MW-6A	**Collect Date**	10/06/2015 12:47	**GCAL ID**	21510122106
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 19:20	CLH	570218

CAS#	Parameter	Result	LOQ	Units
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	**Tetrachloroethene**	**20.4**	**5.00**	**ug/L**
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L

Sample Results

MW-6A

Collect Date	10/06/2015 12:47	**GCAL ID**	21510122106
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 19:20	CLH	570218

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.1	ug/L	98	78 - 130
1868-53-7	Dibromofluoromethane	50	49.8	ug/L	100	77 - 127
2037-26-5	Toluene d8	50	51.2	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51	ug/L	102	71 - 127

MW-7

Collect Date	10/06/2015 15:32	**GCAL ID**	21510122107
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 19:11	TJB	570235

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	**1,2-Dichloroethene(Total)**	**42.2**	**10.0**	**ug/L**
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L

Sample Results

MW-7	**Collect Date**	10/06/2015 15:32	**GCAL ID**	21510122107
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 19:11	TJB	570235

CAS#	Parameter	Result	LOQ	Units
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	**cis-1,2-Dichloroethene**	**42.2**	**5.00**	**ug/L**
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	**Tetrachloroethene**	**163**	**5.00**	**ug/L**
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	**Trichloroethene**	**34.7**	**5.00**	**ug/L**
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L

Sample Results

MW-7

Collect Date	10/06/2015 15:32	**GCAL ID**	21510122107
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 19:11	TJB	570235

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46	ug/L	92	78 - 130
1868-53-7	Dibromofluoromethane	50	51.7	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	50.5	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	52	ug/L	104	71 - 127

MW-8

Collect Date	10/06/2015 15:06	**GCAL ID**	21510122108
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 20:51	CLH	570218

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L

Sample Results

MW-8	**Collect Date**	10/06/2015 15:06	**GCAL ID**	21510122108
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 20:51	CLH	570218

CAS#	Parameter	Result	LOQ	Units
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L

Sample Results

MW-8

Collect Date 10/06/2015 15:06 **GCAL ID** 21510122108
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 20:51	CLH	570218

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.4	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	50	51.1	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	50.9	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.9	ug/L	100	71 - 127

MW-9

Collect Date 10/06/2015 14:42 **GCAL ID** 21510122109
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 21:14	CLH	570218

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L

Sample Results

MW-9	**Collect Date**	10/06/2015 14:42	**GCAL ID**	21510122109
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 21:14	CLH	570218

CAS#	Parameter	Result	LOQ	Units
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L

Sample Results

MW-9

Collect Date	10/06/2015 14:42	**GCAL ID**	21510122109
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 21:14	CLH	570218

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.7	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	50	49.1	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	51.4	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.2	ug/L	98	71 - 127

MW-10

Collect Date	10/07/2015 11:15	**GCAL ID**	21510122110
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 12:32	CLH	570266

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L

Sample Results

MW-10	**Collect Date**	10/07/2015 11:15	**GCAL ID**	21510122110
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 12:32	CLH	570266

CAS#	Parameter	Result	LOQ	Units
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L

Sample Results

MW-10

Collect Date 10/07/2015 11:15 **GCAL ID** 21510122110
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 12:32	CLH	570266

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	49.6	ug/L	99	78 - 130
1868-53-7	Dibromofluoromethane	50	51.2	ug/L	102	77 - 127
2037-26-5	Toluene d8	50	50.9	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48	ug/L	96	71 - 127

MW-12

Collect Date 10/07/2015 15:13 **GCAL ID** 21510122111
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 19:32	TJB	570235

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	**1,2-Dichloroethene(Total)**	**33.6**	**10.0**	**ug/L**
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L

Sample Results

MW-12	**Collect Date**	10/07/2015 15:13	**GCAL ID**	21510122111
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 19:32	TJB	570235

CAS#	Parameter	Result	LOQ	Units
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	**cis-1,2-Dichloroethene**	**31.4**	**5.00**	**ug/L**
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	**Trichloroethene**	**13.4**	**5.00**	**ug/L**
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L

Sample Results

MW-12

Collect Date 10/07/2015 15:13 **GCAL ID** 21510122111
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 19:32	TJB	570235

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.1	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	50	51.5	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	51.2	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	51.1	ug/L	102	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10	10/15/2015 15:57	CLH	570294

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**694**	**50.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	500	467	ug/L	93	78 - 130
1868-53-7	Dibromofluoromethane	500	530	ug/L	106	77 - 127
2037-26-5	Toluene d8	500	510	ug/L	102	76 - 134
17060-07-0	1,2-Dichloroethane-d4	500	537	ug/L	107	71 - 127

MW-13

Collect Date 10/07/2015 14:04 **GCAL ID** 21510122112
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 18:00	CLH	570286

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L

Sample Results

MW-13	**Collect Date**	10/07/2015 14:04	**GCAL ID**	21510122112
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 18:00	CLH	570286

CAS#	Parameter	Result	LOQ	Units
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L

Sample Results

MW-13

Collect Date 10/07/2015 14:04 **GCAL ID** 21510122112
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 18:00	CLH	570286

CAS#	Parameter	Result	LOQ	Units
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.5	ug/L	95	78 - 130
1868-53-7	Dibromofluoromethane	50	46.1	ug/L	92	77 - 127
2037-26-5	Toluene d8	50	51.5	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	46.5	ug/L	93	71 - 127

MW-15

Collect Date 10/07/2015 10:48 **GCAL ID** 21510122113
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 18:23	CLH	570286

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L

Sample Results

MW-15

Collect Date	10/07/2015 10:48	**GCAL ID**	21510122113
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 18:23	CLH	570286

CAS#	Parameter	Result	LOQ	Units
540-59-0	**1,2-Dichloroethene(Total)**	**19.2**	**10.0**	**ug/L**
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	**cis-1,2-Dichloroethene**	**19.2**	**5.00**	**ug/L**
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	**Tetrachloroethene**	**5.23**	**5.00**	**ug/L**
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L

Sample Results

MW-15

Collect Date 10/07/2015 10:48 **GCAL ID** 21510122113
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 18:23	CLH	570286

CAS#	Parameter	Result	LOQ	Units
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	**Vinyl chloride**	**55.2**	**2.00**	**ug/L**
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.8	ug/L	94	78 - 130
1868-53-7	Dibromofluoromethane	50	46.5	ug/L	93	77 - 127
2037-26-5	Toluene d8	50	50.4	ug/L	101	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.6	ug/L	95	71 - 127

MW-16

Collect Date 10/07/2015 10:37 **GCAL ID** 21510122114
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 18:46	CLH	570286

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L

Sample Results

MW-16	**Collect Date**	10/07/2015 10:37	**GCAL ID**	21510122114
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 18:46	CLH	570286

CAS#	Parameter	Result	LOQ	Units
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	**cis-1,2-Dichloroethene**	**8.15**	**5.00**	**ug/L**
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	**Tetrachloroethene**	**14.2**	**5.00**	**ug/L**
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L

Sample Results

MW-16

Collect Date 10/07/2015 10:37 **GCAL ID** 21510122114
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 18:46	CLH	570286

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.8	ug/L	92	78 - 130
1868-53-7	Dibromofluoromethane	50	45.9	ug/L	92	77 - 127
2037-26-5	Toluene d8	50	49.9	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	45.4	ug/L	91	71 - 127

MW-17

Collect Date 10/07/2015 09:35 **GCAL ID** 21510122115
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 20:57	TJB	570235

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L

Sample Results

MW-17	**Collect Date**	10/07/2015 09:35	**GCAL ID**	21510122115
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 20:57	TJB	570235

CAS#	Parameter	Result	LOQ	Units
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	**Vinyl chloride**	**6.65**	**2.00**	**ug/L**
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.7	ug/L	93	78 - 130
1868-53-7	Dibromofluoromethane	50	53.2	ug/L	106	77 - 127
2037-26-5	Toluene d8	50	51.7	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	52.7	ug/L	105	71 - 127

Sample Results

MW-17

Collect Date 10/07/2015 09:35 **GCAL ID** 21510122115
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	20	10/15/2015 16:18	CLH	570294

CAS#	Parameter	Result	LOQ	Units
540-59-0	1,2-Dichloroethene(Total)	430	200	ug/L
156-59-2	cis-1,2-Dichloroethene	409	100	ug/L
127-18-4	Tetrachloroethene	1140	100	ug/L
79-01-6	Trichloroethene	210	100	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1000	959	ug/L	96	78 - 130
1868-53-7	Dibromofluoromethane	1000	1070	ug/L	107	77 - 127
2037-26-5	Toluene d8	1000	1040	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	1000	1070	ug/L	107	71 - 127

MW-18 @ 60'

Collect Date 10/08/2015 09:59 **GCAL ID** 21510122116
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 22:12	CLH	570286

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L

Sample Results

MW-18 @ 60'	**Collect Date**	10/08/2015 09:59	**GCAL ID**	21510122116
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 22:12	CLH	570286

CAS#	Parameter	Result	LOQ	Units
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	**cis-1,2-Dichloroethene**	**9.58**	**5.00**	**ug/L**
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	**Tetrachloroethene**	**86.0**	**5.00**	**ug/L**
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L

Sample Results

MW-18 @ 60'

Collect Date 10/08/2015 09:59 **GCAL ID** 21510122116
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 22:12	CLH	570286

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	43.9	ug/L	88	78 - 130
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	49.9	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	53.5	ug/L	107	71 - 127

MW-19

Collect Date 10/07/2015 10:05 **GCAL ID** 21510122117
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 19:08	CLH	570286

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	**1,2-Dichloroethene(Total)**	**61.3**	**10.0**	**ug/L**
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L

Sample Results

MW-19	**Collect Date**	10/07/2015 10:05	**GCAL ID**	21510122117
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 19:08	CLH	570286

CAS#	Parameter	Result	LOQ	Units
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	**cis-1,2-Dichloroethene**	**61.3**	**5.00**	**ug/L**
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	**Tetrachloroethene**	**8.12**	**5.00**	**ug/L**
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	**Vinyl chloride**	**12.0**	**2.00**	**ug/L**

Sample Results

MW-19

Collect Date	10/07/2015 10:05	**GCAL ID**	21510122117
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 19:08	CLH	570286

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45.8	ug/L	92	78 - 130
1868-53-7	Dibromofluoromethane	50	49.2	ug/L	98	77 - 127
2037-26-5	Toluene d8	50	49.7	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	49.5	ug/L	99	71 - 127

MW-24

Collect Date	10/07/2015 14:22	**GCAL ID**	21510122118
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 22:01	TJB	570235

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L

Sample Results

MW-24	**Collect Date**	10/07/2015 14:22	**GCAL ID**	21510122118
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 22:01	TJB	570235

CAS#	Parameter	Result	LOQ	Units
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	**Trichloroethene**	**123**	**5.00**	**ug/L**
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L

Sample Results

MW-24

Collect Date 10/07/2015 14:22 **GCAL ID** 21510122118
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 22:01	TJB	570235

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	47.7	ug/L	95	78 - 130
1868-53-7	Dibromofluoromethane	50	52.1	ug/L	104	77 - 127
2037-26-5	Toluene d8	50	51.8	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	52.5	ug/L	105	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5	10/15/2015 17:03	CLH	570294

CAS#	Parameter	Result	LOQ	Units
540-59-0	**1,2-Dichloroethene(Total)**	**536**	**50.0**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**536**	**25.0**	**ug/L**
127-18-4	**Tetrachloroethene**	**484**	**25.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	233	ug/L	93	78 - 130
1868-53-7	Dibromofluoromethane	250	263	ug/L	105	77 - 127
2037-26-5	Toluene d8	250	261	ug/L	104	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	269	ug/L	108	71 - 127

RAD-4 @ 98'

Collect Date 10/08/2015 11:37 **GCAL ID** 21510122119
Receive Date 10/10/2015 09:56 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 19:31	CLH	570286

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L

Sample Results

RAD-4 @ 98'

Collect Date	10/08/2015 11:37	**GCAL ID**	21510122119
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 19:31	CLH	570286

CAS#	Parameter	Result	LOQ	Units
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	**1,2-Dichloroethene(Total)**	**360**	**10.0**	**ug/L**
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L

Sample Results

RAD-4 @ 98'	**Collect Date**	10/08/2015 11:37	**GCAL ID**	21510122119
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 19:31	CLH	570286

CAS#	Parameter	Result	LOQ	Units
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	43.6	ug/L	87	78 - 130
1868-53-7	Dibromofluoromethane	50	46.2	ug/L	92	77 - 127
2037-26-5	Toluene d8	50	49.9	ug/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.1	ug/L	94	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5	10/15/2015 21:27	CLH	570286

CAS#	Parameter	Result	LOQ	Units
156-59-2	**cis-1,2-Dichloroethene**	**377**	**25.0**	**ug/L**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	250	204	ug/L	82	78 - 130
1868-53-7	Dibromofluoromethane	250	249	ug/L	100	77 - 127
2037-26-5	Toluene d8	250	257	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	250	270	ug/L	108	71 - 127

Sample Results

RAD-5 @ 85'	**Collect Date**	10/08/2015 08:40	**GCAL ID**	21510122120
	Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 22:43	CLH	570235

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	**1,1-Dichloroethene**	**5.68**	**5.00**	**ug/L**
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	**1,2-Dichlorobenzene**	**9.51**	**5.00**	**ug/L**
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L

Sample Results

RAD-5 @ 85'

Collect Date	10/08/2015 08:40	**GCAL ID**	21510122120
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/14/2015 22:43	CLH	570235

CAS#	Parameter	Result	LOQ	Units
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
108-88-3	**Toluene**	**5.24**	**5.00**	**ug/L**
156-60-5	**trans-1,2-Dichloroethene**	**24.6**	**5.00**	**ug/L**
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	**Vinyl chloride**	**8.53**	**2.00**	**ug/L**
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	46.2	ug/L	92	78 - 130
1868-53-7	Dibromofluoromethane	50	54.7	ug/L	109	77 - 127
2037-26-5	Toluene d8	50	51.3	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	54.2	ug/L	108	71 - 127

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100	10/15/2015 17:24	CLH	570294

CAS#	Parameter	Result	LOQ	Units
540-59-0	**1,2-Dichloroethene(Total)**	**4070**	**1000**	**ug/L**
156-59-2	**cis-1,2-Dichloroethene**	**4070**	**500**	**ug/L**
127-18-4	**Tetrachloroethene**	**841**	**500**	**ug/L**
79-01-6	Trichloroethene	ND	500	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	5000	4670	ug/L	93	78 - 130
1868-53-7	Dibromofluoromethane	5000	5260	ug/L	105	77 - 127
2037-26-5	Toluene d8	5000	5280	ug/L	106	76 - 134
17060-07-0	1,2-Dichloroethane-d4	5000	5380	ug/L	108	71 - 127

Sample Results

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Collect Date	10/08/2015 12:00	**GCAL ID**	21510122121
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 11:52	LBH	570266

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L

Sample Results

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Collect Date	10/08/2015 12:00	**GCAL ID**	21510122121
Receive Date	10/10/2015 09:56	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	10/15/2015 11:52	LBH	570266

CAS#	Parameter	Result	LOQ	Units
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	2.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.2	ug/L	100	78 - 130
1868-53-7	Dibromofluoromethane	50	51.4	ug/L	103	77 - 127
2037-26-5	Toluene d8	50	49.6	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	48.5	ug/L	97	71 - 127

GC/MS Volatiles QC Summary

Analytical Batch 570218	Client ID	MB570218	LCS570218	LCSD570218
	GCAL ID	1499037	1499038	1499039
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	10/14/2015 17:04	10/14/2015 15:33	10/14/2015 15:56
	Matrix	Water	Water	Water

EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	5.00	50.0	47.7	95	75 - 124	50.0	47.4	95	1	30
1,1,1-Trichloroethane	71-55-6	ND	5.00	50.0	47.9	96	76 - 126	50.0	44.4	89	8	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.00	50.0	47.8	96	70 - 122	50.0	44.4	89	7	30
1,1,2-Trichloroethane	79-00-5	ND	5.00	50.0	48.5	97	72 - 121	50.0	48.8	98	1	30
1,1-Dichloroethane	75-34-3	ND	5.00	50.0	45.7	91	74 - 127	50.0	43.9	88	4	30
1,1-Dichloroethene	75-35-4	ND	5.00	50.0	48.7	97	69 - 129	50.0	47.2	94	3	20
1,1-Dichloropropene	563-58-6	ND	5.00	50.0	48.5	97	72 - 131	50.0	46.2	92	5	30
1,2,3-Trichloropropane	96-18-4	ND	5.00	50.0	48.7	97	70 - 120	50.0	46.2	92	5	30
1,2,4-Trichlorobenzene	120-82-1	ND	5.00	50.0	52.4	105	61 - 135	50.0	50.1	100	4	30
1,2,4-Trimethylbenzene	95-63-6	ND	5.00	50.0	47.1	94	74 - 125	50.0	44.6	89	5	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	5.00	50.0	53.1	106	57 - 121	50.0	54.2	108	2	30
1,2-Dibromoethane	106-93-4	ND	5.00	50.0	50.6	101	70 - 124	50.0	50.4	101	0	30
1,2-Dichlorobenzene	95-50-1	ND	5.00	50.0	50.6	101	71 - 126	50.0	47.9	96	5	30
1,2-Dichloroethane	107-06-2	ND	5.00	50.0	46.4	93	71 - 129	50.0	45.3	91	2	30
1,2-Dichloroethene(Total)	540-59-0	ND	10.0	100	97.1	97	74 - 128	100	91.4	91	6	30
1,2-Dichloropropane	78-87-5	ND	5.00	50.0	51.0	102	72 - 128	50.0	46.8	94	9	30
1,3,5-Trimethylbenzene	108-67-8	ND	5.00	50.0	49.5	99	71 - 132	50.0	45.8	92	8	30
1,3-Dichlorobenzene	541-73-1	ND	5.00	50.0	48.5	97	74 - 126	50.0	46.7	93	4	30
1,3-Dichloropropane	142-28-9	ND	5.00	50.0	49.7	99	74 - 122	50.0	49.9	100	0	30
1,4-Dichlorobenzene	106-46-7	ND	5.00	50.0	48.3	97	72 - 122	50.0	46.3	93	4	30
2,2-Dichloropropane	594-20-7	ND	5.00	50.0	45.9	92	77 - 124	50.0	42.0	84	9	30
2-Butanone	78-93-3	ND	5.00	50.0	50.4	101	58 - 137	50.0	49.8	100	1	30
2-Chlorotoluene	95-49-8	ND	5.00	50.0	48.8	98	72 - 127	50.0	44.9	90	8	30
2-Hexanone	591-78-6	ND	5.00	50.0	51.9	104	50 - 135	50.0	53.5	107	3	30
4-Chlorotoluene	106-43-4	ND	5.00	50.0	49.5	99	75 - 126	50.0	46.3	93	7	30
4-Isopropyltoluene	99-87-6	ND	5.00	50.0	49.4	99	71 - 129	50.0	46.3	93	6	30
4-Methyl-2-pentanone	108-10-1	ND	5.00	50.0	54.8	110	57 - 132	50.0	55.6	111	1	30
Acetone	67-64-1	ND	5.00	50.0	47.1	94	44 - 156	50.0	48.0	96	2	30
Benzene	71-43-2	ND	5.00	50.0	49.0	98	70 - 129	50.0	45.8	92	7	20
Bromobenzene	108-86-1	ND	5.00	50.0	48.5	97	71 - 120	50.0	45.2	90	7	30
Bromochloromethane	74-97-5	ND	5.00	50.0	48.2	96	76 - 130	50.0	45.6	91	6	30
Bromodichloromethane	75-27-4	ND	5.00	50.0	49.8	100	74 - 125	50.0	46.4	93	7	30
Bromoform	75-25-2	ND	5.00	50.0	49.2	98	64 - 122	50.0	49.1	98	0	30
Bromomethane	74-83-9	ND	5.00	50.0	53.9	108	47 - 138	50.0	51.8	104	4	30
Carbon disulfide	75-15-0	ND	5.00	50.0	50.7	101	69 - 136	50.0	48.5	97	4	30
Carbon tetrachloride	56-23-5	ND	5.00	50.0	48.5	97	76 - 128	50.0	44.0	88	10	30
Chlorobenzene	108-90-7	ND	5.00	50.0	47.1	94	74 - 123	50.0	47.4	95	1	20
Chloroethane	75-00-3	ND	5.00	50.0	53.4	107	62 - 141	50.0	50.9	102	5	30
Chloroform	67-66-3	ND	5.00	50.0	47.9	96	75 - 122	50.0	44.8	90	7	30
Chloromethane	74-87-3	ND	5.00	50.0	46.8	94	59 - 132	50.0	45.8	92	2	30
cis-1,2-Dichloroethene	156-59-2	ND	5.00	50.0	48.8	98	73 - 130	50.0	45.0	90	8	30
cis-1,3-Dichloropropene	10061-01-5	ND	5.00	50.0	51.6	103	71 - 132	50.0	47.8	96	8	30
Dibromochloromethane	124-48-1	ND	5.00	50.0	48.9	98	71 - 123	50.0	50.0	100	2	30
Dibromomethane	74-95-3	ND	5.00	50.0	50.9	102	72 - 129	50.0	48.1	96	6	30
Dichlorodifluoromethane	75-71-8	ND	5.00	50.0	49.0	98	58 - 140	50.0	45.8	92	7	30
Ethylbenzene	100-41-4	ND	5.00	50.0	48.2	96	74 - 126	50.0	47.1	94	2	30
Hexachlorobutadiene	87-68-3	ND	5.00	50.0	50.1	100	61 - 144	50.0	47.4	95	6	30
Isopropylbenzene (Cumene)	98-82-8	ND	5.00	50.0	49.5	99	71 - 125	50.0	49.0	98	1	30
m,p-Xylene	136777-61-2	ND	10.0	100	96.9	97	74 - 126	100	95.6	96	1	30
Methyl iodide	74-88-4	ND	5.00	50.0	52.1	104	57 - 141	50.0	48.8	98	7	30
Methylene chloride	75-09-2	ND	5.00	50.0	47.1	94	68 - 132	50.0	47.1	94	0	30
Naphthalene	91-20-3	ND	5.00	50.0	55.1	110	57 - 138	50.0	54.4	109	1	35
n-Butylbenzene	104-51-8	ND	5.00	50.0	47.8	96	69 - 134	50.0	44.5	89	7	30
n-Propylbenzene	103-65-1	ND	5.00	50.0	49.0	98	75 - 129	50.0	45.6	91	7	30
o-Xylene	95-47-6	ND	5.00	50.0	50.9	102	73 - 130	50.0	50.1	100	2	30
sec-Butylbenzene	135-98-8	ND	5.00	50.0	48.5	97	70 - 136	50.0	45.5	91	6	30
Styrene	100-42-5	ND	5.00	50.0	50.1	100	71 - 127	50.0	48.7	97	3	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	5.00	50.0	46.2	92	71 - 125	50.0	45.4	91	2	30

GC/MS Volatiles QC Summary

Analytical Batch 570218	Client ID	MB570218	LCS570218	LCSD570218
	GCAL ID	1499037	1499038	1499039
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	10/14/2015 17:04	10/14/2015 15:33	10/14/2015 15:56
	Matrix	Water	Water	Water

EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
tert-Butylbenzene	98-06-6	ND	5.00	50.0	49.0	98	72 - 126	50.0	46.8	94	5	30
Tetrachloroethene	127-18-4	ND	5.00	50.0	47.0	94	68 - 128	50.0	47.6	95	1	30
Toluene	108-88-3	ND	5.00	50.0	49.2	98	72 - 120	50.0	48.5	97	1	20
trans-1,2-Dichloroethene	156-60-5	ND	5.00	50.0	48.3	97	69 - 132	50.0	46.4	93	4	30
trans-1,3-Dichloropropene	10061-02-6	ND	5.00	50.0	53.6	107	71 - 131	50.0	50.2	100	7	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	5.00	50.0	52.0	104	56 - 132	50.0	50.0	100	4	30
Trichloroethene	79-01-6	ND	5.00	50.0	51.3	103	76 - 129	50.0	47.9	96	7	20
Trichlorofluoromethane	75-69-4	ND	5.00	50.0	50.0	100	72 - 136	50.0	44.8	90	11	30
Trichlorotrifluoroethane	76-13-1	ND	5.00	50.0	49.3	99	72 - 136	50.0	45.9	92	7	30
Vinyl chloride	75-01-4	ND	2.00	50.0	50.7	101	68 - 132	50.0	48.1	96	5	30
Xylene (total)	1330-20-7	ND	15.0	150	148	99	74 - 127	150	146	97	1	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	49.8	100	50	48.7	97	71 - 127	50	48.1	96	1	NA
4-Bromofluorobenzene	460-00-4	48.7	97	50	50.6	101	78 - 130	50	50.6	101	0	NA
Dibromofluoromethane	1868-53-7	48.9	98	50	50.1	100	77 - 127	50	49.2	98	2	NA
Toluene d8	2037-26-5	54.3	109	50	49.2	98	76 - 134	50	50.4	101	2	NA

Analytical Batch 570235	Client ID	MB570235	LCS570235	LCSD570235
	GCAL ID	1499112	1499113	1499114
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	10/14/2015 18:50	10/14/2015 17:01	10/14/2015 17:22
	Matrix	Water	Water	Water

EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	5.00	50.0	52.4	105	75 - 124	50.0	49.7	99	5	30
1,1,1-Trichloroethane	71-55-6	ND	5.00	50.0	52.4	105	76 - 126	50.0	47.8	96	9	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.00	50.0	50.2	100	70 - 122	50.0	48.6	97	3	30
1,1,2-Trichloroethane	79-00-5	ND	5.00	50.0	51.1	102	72 - 121	50.0	49.8	100	3	30
1,1-Dichloroethane	75-34-3	ND	5.00	50.0	52.7	105	74 - 127	50.0	49.3	99	7	30
1,1-Dichloroethene	75-35-4	ND	5.00	50.0	54.4	109	69 - 129	50.0	48.3	97	12	20
1,1-Dichloropropene	563-58-6	ND	5.00	50.0	54.4	109	72 - 131	50.0	50.5	101	7	30
1,2,3-Trichloropropane	96-18-4	ND	5.00	50.0	49.6	99	70 - 120	50.0	48.1	96	3	30
1,2,4-Trichlorobenzene	120-82-1	ND	5.00	50.0	57.5	115	61 - 135	50.0	53.3	107	8	30
1,2,4-Trimethylbenzene	95-63-6	ND	5.00	50.0	56.7	113	74 - 125	50.0	51.8	104	9	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	5.00	50.0	47.8	96	57 - 121	50.0	46.9	94	2	30
1,2-Dibromoethane	106-93-4	ND	5.00	50.0	52.5	105	70 - 124	50.0	50.3	101	4	30
1,2-Dichlorobenzene	95-50-1	ND	5.00	50.0	53.5	107	71 - 126	50.0	50.4	101	6	30
1,2-Dichloroethane	107-06-2	ND	5.00	50.0	51.4	103	71 - 129	50.0	49.3	99	4	30
1,2-Dichloroethene(Total)	540-59-0	ND	10.0	100	108	108	74 - 128	100	102	102	6	30
1,2-Dichloropropane	78-87-5	ND	5.00	50.0	52.8	106	72 - 128	50.0	50.2	100	5	30
1,3,5-Trimethylbenzene	108-67-8	ND	5.00	50.0	56.4	113	71 - 132	50.0	51.2	102	10	30
1,3-Dichlorobenzene	541-73-1	ND	5.00	50.0	54.4	109	74 - 126	50.0	50.1	100	8	30
1,3-Dichloropropane	142-28-9	ND	5.00	50.0	51.9	104	74 - 122	50.0	49.8	100	4	30
1,4-Dichlorobenzene	106-46-7	ND	5.00	50.0	54.1	108	72 - 122	50.0	50.4	101	7	30
2,2-Dichloropropane	594-20-7	ND	5.00	50.0	53.3	107	77 - 124	50.0	48.9	98	9	30
2-Butanone	78-93-3	ND	5.00	50.0	49.5	99	58 - 137	50.0	49.6	99	0	30
2-Chlorotoluene	95-49-8	ND	5.00	50.0	54.5	109	72 - 127	50.0	49.9	100	9	30
2-Hexanone	591-78-6	ND	5.00	50.0	52.3	105	50 - 135	50.0	52.6	105	1	30
4-Chlorotoluene	106-43-4	ND	5.00	50.0	55.3	111	75 - 126	50.0	50.9	102	8	30
4-Isopropyltoluene	99-87-6	ND	5.00	50.0	58.2	116	71 - 129	50.0	52.9	106	10	30
4-Methyl-2-pentanone	108-10-1	ND	5.00	50.0	50.1	100	57 - 132	50.0	50.4	101	1	30
Acetone	67-64-1	ND	5.00	50.0	51.0	102	44 - 156	50.0	50.3	101	1	30
Benzene	71-43-2	ND	5.00	50.0	54.4	109	70 - 129	50.0	50.8	102	7	20
Bromobenzene	108-86-1	ND	5.00	50.0	52.6	105	71 - 120	50.0	48.4	97	8	30
Bromochloromethane	74-97-5	ND	5.00	50.0	52.6	105	76 - 130	50.0	51.3	103	3	30
Bromodichloromethane	75-27-4	ND	5.00	50.0	53.1	106	74 - 125	50.0	50.6	101	5	30

GC/MS Volatiles QC Summary

Analytical Batch 570235	Client ID	MB570235		LCS570235				LCSD570235				
	GCAL ID	1499112		1499113				1499114				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/14/2015 18:50		10/14/2015 17:01				10/14/2015 17:22				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Bromoform	75-25-2	ND	5.00	50.0	50.8	102	64 - 122	50.0	49.5	99	3	30
Bromomethane	74-83-9	ND	5.00	50.0	58.5	117	47 - 138	50.0	54.4	109	7	30
Carbon disulfide	75-15-0	ND	5.00	50.0	57.0	114	69 - 136	50.0	52.3	105	9	30
Carbon tetrachloride	56-23-5	ND	5.00	50.0	56.9	114	76 - 128	50.0	52.3	105	8	30
Chlorobenzene	108-90-7	ND	5.00	50.0	53.7	107	74 - 123	50.0	49.8	100	8	20
Chloroethane	75-00-3	ND	5.00	50.0	59.5	119	62 - 141	50.0	54.5	109	9	30
Chloroform	67-66-3	ND	5.00	50.0	52.7	105	75 - 122	50.0	49.8	100	6	30
Chloromethane	74-87-3	ND	5.00	50.0	58.8	118	59 - 132	50.0	52.9	106	11	30
cis-1,2-Dichloroethene	156-59-2	ND	5.00	50.0	54.3	109	73 - 130	50.0	50.8	102	7	30
cis-1,3-Dichloropropene	10061-01-5	ND	5.00	50.0	54.5	109	71 - 132	50.0	52.6	105	4	30
Dibromochloromethane	124-48-1	ND	5.00	50.0	54.0	108	71 - 123	50.0	52.5	105	3	30
Dibromomethane	74-95-3	ND	5.00	50.0	52.2	104	72 - 129	50.0	50.0	100	4	30
Dichlorodifluoromethane	75-71-8	ND	5.00	50.0	58.2	116	58 - 140	50.0	51.6	103	12	30
Ethylbenzene	100-41-4	ND	5.00	50.0	54.4	109	74 - 126	50.0	51.3	103	6	30
Hexachlorobutadiene	87-68-3	ND	5.00	50.0	56.6	113	61 - 144	50.0	50.5	101	11	30
Isopropylbenzene (Cumene)	98-82-8	ND	5.00	50.0	59.7	119	71 - 125	50.0	54.8	110	9	30
m,p-Xylene	136777-61-2	ND	10.0	100	112	112	74 - 126	100	102	102	9	30
Methyl iodide	74-88-4	ND	5.00	50.0	51.5	103	57 - 141	50.0	48.5	97	6	30
Methylene chloride	75-09-2	ND	5.00	50.0	52.8	106	68 - 132	50.0	49.7	99	6	30
Naphthalene	91-20-3	ND	5.00	50.0	48.3	97	57 - 138	50.0	46.9	94	3	35
n-Butylbenzene	104-51-8	ND	5.00	50.0	57.5	115	69 - 134	50.0	53.2	106	8	30
n-Propylbenzene	103-65-1	ND	5.00	50.0	55.0	110	75 - 129	50.0	50.4	101	9	30
o-Xylene	95-47-6	ND	5.00	50.0	55.6	111	73 - 130	50.0	50.4	101	10	30
sec-Butylbenzene	135-98-8	ND	5.00	50.0	57.2	114	70 - 136	50.0	51.7	103	10	30
Styrene	100-42-5	ND	5.00	50.0	59.9	120	71 - 127	50.0	56.3	113	6	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	5.00	50.0	52.0	104	71 - 125	50.0	49.2	98	6	30
tert-Butylbenzene	98-06-6	ND	5.00	50.0	55.7	111	72 - 126	50.0	50.0	100	11	30
Tetrachloroethene	127-18-4	ND	5.00	50.0	52.7	105	68 - 128	50.0	49.6	99	6	30
Toluene	108-88-3	ND	5.00	50.0	53.8	108	72 - 120	50.0	49.9	100	8	20
trans-1,2-Dichloroethene	156-60-5	ND	5.00	50.0	53.2	106	69 - 132	50.0	51.1	102	4	30
trans-1,3-Dichloropropene	10061-02-6	ND	5.00	50.0	57.9	116	71 - 131	50.0	55.7	111	4	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	5.00	50.0	51.1	102	56 - 132	50.0	50.5	101	1	30
Trichloroethene	79-01-6	ND	5.00	50.0	52.5	105	76 - 129	50.0	49.3	99	6	20
Trichlorofluoromethane	75-69-4	ND	5.00	50.0	54.4	109	72 - 136	50.0	49.5	99	9	30
Trichlorotrifluoroethane	76-13-1	ND	5.00	50.0	50.3	101	72 - 136	50.0	45.3	91	10	30
Vinyl chloride	75-01-4	ND	2.00	50.0	64.1	128	68 - 132	50.0	58.0	116	10	30
Xylene (total)	1330-20-7	ND	15.0	150	167	111	74 - 127	150	152	101	9	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	53.4	107	50	51.2	102	71 - 127	50	50.7	101	1	NA
4-Bromofluorobenzene	460-00-4	47.4	95	50	50.3	101	78 - 130	50	49.7	99	1	NA
Dibromofluoromethane	1868-53-7	52.4	105	50	51.4	103	77 - 127	50	51.7	103	1	NA
Toluene d8	2037-26-5	51.2	102	50	50	100	76 - 134	50	50.3	101	1	NA

Analytical Batch 570266	Client ID	MB570266		LCS570266				LCSD570266				
	GCAL ID	1499217		1499218				1499490				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/15/2015 10:31		10/15/2015 09:11				10/15/2015 09:31				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	5.00	50.0	52.2	104	75 - 124	50.0	51.2	102	2	30
1,1,1-Trichloroethane	71-55-6	ND	5.00	50.0	48.1	96	76 - 126	50.0	46.4	93	4	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.00	50.0	47.6	95	70 - 122	50.0	47.9	96	1	30
1,1,2-Trichloroethane	79-00-5	ND	5.00	50.0	50.0	100	72 - 121	50.0	50.4	101	1	30
1,1-Dichloroethane	75-34-3	ND	5.00	50.0	49.6	99	74 - 127	50.0	49.3	99	1	30
1,1-Dichloroethene	75-35-4	ND	5.00	50.0	48.4	97	69 - 129	50.0	46.8	94	3	20

GC/MS Volatiles QC Summary

Analytical Batch 570266	Client ID	MB570266	LCS570266	LCSD570266
	GCAL ID	1499217	1499218	1499490
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	10/15/2015 10:31	10/15/2015 09:11	10/15/2015 09:31
	Matrix	Water	Water	Water

EPA 8260B		Units	ug/L	Spike	Result	%R	Control	Spike	Result	%R	RPD	RPD
		Result	LOQ	Added			Limits%R	Added				Limit
1,1-Dichloropropene	563-58-6	ND	5.00	50.0	47.5	95	72 - 131	50.0	45.4	91	5	30
1,2,3-Trichloropropane	96-18-4	ND	5.00	50.0	43.4	87	70 - 120	50.0	42.9	86	1	30
1,2,4-Trichlorobenzene	120-82-1	ND	5.00	50.0	45.1	90	61 - 135	50.0	49.0	98	8	30
1,2,4-Trimethylbenzene	95-63-6	ND	5.00	50.0	48.8	98	74 - 125	50.0	46.5	93	5	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	5.00	50.0	41.3	83	57 - 121	50.0	46.9	94	13	30
1,2-Dibromoethane	106-93-4	ND	5.00	50.0	51.6	103	70 - 124	50.0	55.5	111	7	30
1,2-Dichlorobenzene	95-50-1	ND	5.00	50.0	50.7	101	71 - 126	50.0	51.9	104	2	30
1,2-Dichloroethane	107-06-2	ND	5.00	50.0	47.6	95	71 - 129	50.0	48.0	96	1	30
1,2-Dichloroethene(Total)	540-59-0	ND	10.0	100	102	102	74 - 128	100	101	101	1	30
1,2-Dichloropropane	78-87-5	ND	5.00	50.0	49.3	99	72 - 128	50.0	46.9	94	5	30
1,3,5-Trimethylbenzene	108-67-8	ND	5.00	50.0	53.3	107	71 - 132	50.0	50.9	102	5	30
1,3-Dichlorobenzene	541-73-1	ND	5.00	50.0	50.2	100	74 - 126	50.0	49.1	98	2	30
1,3-Dichloropropane	142-28-9	ND	5.00	50.0	49.9	100	74 - 122	50.0	50.7	101	2	30
1,4-Dichlorobenzene	106-46-7	ND	5.00	50.0	48.5	97	72 - 122	50.0	47.3	95	3	30
2,2-Dichloropropane	594-20-7	ND	5.00	50.0	53.0	106	77 - 124	50.0	52.3	105	1	30
2-Butanone	78-93-3	ND	5.00	50.0	53.6	107	58 - 137	50.0	56.4	113	5	30
2-Chlorotoluene	95-49-8	ND	5.00	50.0	48.5	97	72 - 127	50.0	46.0	92	5	30
2-Hexanone	591-78-6	ND	5.00	50.0	43.9	88	50 - 135	50.0	45.7	91	4	30
4-Chlorotoluene	106-43-4	ND	5.00	50.0	49.6	99	75 - 126	50.0	47.1	94	5	30
4-Isopropyltoluene	99-87-6	ND	5.00	50.0	48.3	97	71 - 129	50.0	46.2	92	4	30
4-Methyl-2-pentanone	108-10-1	ND	5.00	50.0	51.8	104	57 - 132	50.0	56.1	112	8	30
Acetone	67-64-1	ND	5.00	50.0	39.9	80	44 - 156	50.0	46.3	93	15	30
Benzene	71-43-2	ND	5.00	50.0	50.7	101	70 - 129	50.0	48.0	96	5	20
Bromobenzene	108-86-1	ND	5.00	50.0	46.6	93	71 - 120	50.0	44.6	89	4	30
Bromochloromethane	74-97-5	ND	5.00	50.0	49.0	98	76 - 130	50.0	49.5	99	1	30
Bromodichloromethane	75-27-4	ND	5.00	50.0	50.3	101	74 - 125	50.0	47.7	95	5	30
Bromoform	75-25-2	ND	5.00	50.0	51.3	103	64 - 122	50.0	51.7	103	1	30
Bromomethane	74-83-9	ND	5.00	50.0	44.7	89	47 - 138	50.0	46.1	92	3	30
Carbon disulfide	75-15-0	ND	5.00	50.0	47.4	95	69 - 136	50.0	45.8	92	3	30
Carbon tetrachloride	56-23-5	ND	5.00	50.0	43.2	86	76 - 128	50.0	42.3	85	2	30
Chlorobenzene	108-90-7	ND	5.00	50.0	49.8	100	74 - 123	50.0	47.9	96	4	20
Chloroethane	75-00-3	ND	5.00	50.0	42.4	85	62 - 141	50.0	42.0	84	1	30
Chloroform	67-66-3	ND	5.00	50.0	48.3	97	75 - 122	50.0	46.8	94	3	30
Chloromethane	74-87-3	ND	5.00	50.0	38.5	77	59 - 132	50.0	40.2	80	4	30
cis-1,2-Dichloroethene	156-59-2	ND	5.00	50.0	52.6	105	73 - 130	50.0	53.6	107	2	30
cis-1,3-Dichloropropene	10061-01-5	ND	5.00	50.0	47.9	96	71 - 132	50.0	48.0	96	0	30
Dibromochloromethane	124-48-1	ND	5.00	50.0	50.0	100	71 - 123	50.0	53.8	108	7	30
Dibromomethane	74-95-3	ND	5.00	50.0	46.7	93	72 - 129	50.0	47.1	94	1	30
Dichlorodifluoromethane	75-71-8	ND	5.00	50.0	37.4	75	58 - 140	50.0	34.9	70	7	30
Ethylbenzene	100-41-4	ND	5.00	50.0	53.1	106	74 - 126	50.0	51.0	102	4	30
Hexachlorobutadiene	87-68-3	ND	5.00	50.0	54.8	110	61 - 144	50.0	54.8	110	0	30
Isopropylbenzene (Cumene)	98-82-8	ND	5.00	50.0	47.6	95	71 - 125	50.0	46.0	92	3	30
m,p-Xylene	136777-61-2	ND	10.0	100	101	101	74 - 126	100	95.1	95	6	30
Methyl iodide	74-88-4	ND	5.00	50.0	40.2	80	57 - 141	50.0	42.8	86	6	30
Methylene chloride	75-09-2	ND	5.00	50.0	50.1	100	68 - 132	50.0	48.6	97	3	30
Naphthalene	91-20-3	ND	5.00	50.0	41.8	84	57 - 138	50.0	50.6	101	19	35
n-Butylbenzene	104-51-8	ND	5.00	50.0	47.5	95	69 - 134	50.0	46.2	92	3	30
n-Propylbenzene	103-65-1	ND	5.00	50.0	48.3	97	75 - 129	50.0	45.4	91	6	30
o-Xylene	95-47-6	ND	5.00	50.0	48.4	97	73 - 130	50.0	47.1	94	3	30
sec-Butylbenzene	135-98-8	ND	5.00	50.0	47.9	96	70 - 136	50.0	45.8	92	4	30
Styrene	100-42-5	ND	5.00	50.0	49.7	99	71 - 127	50.0	47.5	95	5	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	5.00	50.0	53.4	107	71 - 125	50.0	55.6	111	4	30
tert-Butylbenzene	98-06-6	ND	5.00	50.0	50.9	102	72 - 126	50.0	49.2	98	3	30
Tetrachloroethene	127-18-4	ND	5.00	50.0	52.7	105	68 - 128	50.0	51.6	103	2	30
Toluene	108-88-3	ND	5.00	50.0	50.7	101	72 - 120	50.0	49.0	98	3	20
trans-1,2-Dichloroethene	156-60-5	ND	5.00	50.0	49.0	98	69 - 132	50.0	47.1	94	4	30
trans-1,3-Dichloropropene	10061-02-6	ND	5.00	50.0	46.4	93	71 - 131	50.0	46.3	93	0	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	5.00	50.0	44.1	88	56 - 132	50.0	42.7	85	3	30

GC/MS Volatiles QC Summary

Analytical Batch 570266	Client ID	MB570266		LCS570266				LCSD570266				
	GCAL ID	1499217		1499218				1499490				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/15/2015 10:31		10/15/2015 09:11				10/15/2015 09:31				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Trichloroethene	79-01-6	ND	5.00	50.0	50.7	101	76 - 129	50.0	50.4	101	1	20
Trichlorofluoromethane	75-69-4	ND	5.00	50.0	48.5	97	72 - 136	50.0	47.2	94	3	30
Trichlorotrifluoroethane	76-13-1	ND	5.00	50.0	49.0	98	72 - 136	50.0	45.6	91	7	30
Vinyl chloride	75-01-4	ND	2.00	50.0	44.2	88	68 - 132	50.0	43.7	87	1	30
Xylene (total)	1330-20-7	ND	15.0	150	150	100	74 - 127	150	142	95	5	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	49.7	99	50	47.6	95	71 - 127	50	47.8	96	0	NA
4-Bromofluorobenzene	460-00-4	49.7	99	50	54.7	109	78 - 130	50	53.6	107	2	NA
Dibromofluoromethane	1868-53-7	50.1	100	50	48.7	97	77 - 127	50	49.1	98	1	NA
Toluene d8	2037-26-5	50.8	102	50	51.3	103	76 - 134	50	51.3	103	0	NA

Analytical Batch 570286	Client ID	MB570286		LCS570286				LCSD570286				
	GCAL ID	1499401		1499402				1499403				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	10/15/2015 14:36		10/15/2015 13:05				10/15/2015 13:28				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	5.00	50.0	52.4	105	75 - 124	50.0	51.3	103	2	30
1,1,1-Trichloroethane	71-55-6	ND	5.00	50.0	51.4	103	76 - 126	50.0	49.9	100	3	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.00	50.0	49.4	99	70 - 122	50.0	50.3	101	2	30
1,1,2-Trichloroethane	79-00-5	ND	5.00	50.0	51.2	102	72 - 121	50.0	48.9	98	5	30
1,1-Dichloroethane	75-34-3	ND	5.00	50.0	43.4	87	74 - 127	50.0	39.6	79	9	30
1,1-Dichloroethene	75-35-4	ND	5.00	50.0	52.3	105	69 - 129	50.0	49.2	98	6	20
1,1-Dichloropropene	563-58-6	ND	5.00	50.0	51.1	102	72 - 131	50.0	49.9	100	2	30
1,2,3-Trichloropropane	96-18-4	ND	5.00	50.0	48.1	96	70 - 120	50.0	51.0	102	6	30
1,2,4-Trichlorobenzene	120-82-1	ND	5.00	50.0	54.5	109	61 - 135	50.0	55.8	112	2	30
1,2,4-Trimethylbenzene	95-63-6	ND	5.00	50.0	48.4	97	74 - 125	50.0	49.8	100	3	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	5.00	50.0	52.8	106	57 - 121	50.0	55.5	111	5	30
1,2-Dibromoethane	106-93-4	ND	5.00	50.0	52.3	105	70 - 124	50.0	52.0	104	1	30
1,2-Dichlorobenzene	95-50-1	ND	5.00	50.0	51.6	103	71 - 126	50.0	52.5	105	2	30
1,2-Dichloroethane	107-06-2	ND	5.00	50.0	50.5	101	71 - 129	50.0	50.7	101	0	30
1,2-Dichloroethene(Total)	540-59-0	ND	10.0	100	102	102	74 - 128	100	101	101	1	30
1,2-Dichloropropane	78-87-5	ND	5.00	50.0	49.8	100	72 - 128	50.0	48.3	97	3	30
1,3,5-Trimethylbenzene	108-67-8	ND	5.00	50.0	51.1	102	71 - 132	50.0	50.7	101	1	30
1,3-Dichlorobenzene	541-73-1	ND	5.00	50.0	51.4	103	74 - 126	50.0	50.0	100	3	30
1,3-Dichloropropane	142-28-9	ND	5.00	50.0	52.4	105	74 - 122	50.0	49.4	99	6	30
1,4-Dichlorobenzene	106-46-7	ND	5.00	50.0	50.2	100	72 - 122	50.0	50.4	101	0	30
2,2-Dichloropropane	594-20-7	ND	5.00	50.0	54.1	108	77 - 124	50.0	50.4	101	7	30
2-Butanone	78-93-3	ND	5.00	50.0	49.9	100	58 - 137	50.0	53.2	106	6	30
2-Chlorotoluene	95-49-8	ND	5.00	50.0	50.9	102	72 - 127	50.0	50.8	102	0	30
2-Hexanone	591-78-6	ND	5.00	50.0	51.9	104	50 - 135	50.0	49.6	99	5	30
4-Chlorotoluene	106-43-4	ND	5.00	50.0	51.3	103	75 - 126	50.0	52.9	106	3	30
4-Isopropyltoluene	99-87-6	ND	5.00	50.0	51.2	102	71 - 129	50.0	50.9	102	1	30
4-Methyl-2-pentanone	108-10-1	ND	5.00	50.0	53.4	107	57 - 132	50.0	50.0	100	7	30
Acetone	67-64-1	ND	5.00	50.0	56.6	113	44 - 156	50.0	58.2	116	3	30
Benzene	71-43-2	ND	5.00	50.0	51.0	102	70 - 129	50.0	49.5	99	3	20
Bromobenzene	108-86-1	ND	5.00	50.0	48.1	96	71 - 120	50.0	50.1	100	4	30
Bromochloromethane	74-97-5	ND	5.00	50.0	49.6	99	76 - 130	50.0	47.6	95	4	30
Bromodichloromethane	75-27-4	ND	5.00	50.0	52.3	105	74 - 125	50.0	49.6	99	5	30
Bromoform	75-25-2	ND	5.00	50.0	53.6	107	64 - 122	50.0	54.0	108	1	30
Bromomethane	74-83-9	ND	5.00	50.0	56.8	114	47 - 138	50.0	55.6	111	2	30
Carbon disulfide	75-15-0	ND	5.00	50.0	53.4	107	69 - 136	50.0	50.3	101	6	30
Carbon tetrachloride	56-23-5	ND	5.00	50.0	52.7	105	76 - 128	50.0	49.3	99	7	30
Chlorobenzene	108-90-7	ND	5.00	50.0	51.8	104	74 - 123	50.0	50.2	100	3	20
Chloroethane	75-00-3	ND	5.00	50.0	53.4	107	62 - 141	50.0	53.1	106	1	30

GC/MS Volatiles QC Summary

Analytical Batch	Client ID	MB570286	LCS570286	LCSD570286
570286	GCAL ID	1499401	1499402	1499403
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	10/15/2015 14:36	10/15/2015 13:05	10/15/2015 13:28
	Matrix	Water	Water	Water

EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Chloroform	67-66-3	ND	5.00	50.0	51.0	102	75 - 122	50.0	50.2	100	2	30
Chloromethane	74-87-3	ND	5.00	50.0	49.8	100	59 - 132	50.0	48.7	97	2	30
cis-1,2-Dichloroethene	156-59-2	ND	5.00	50.0	50.2	100	73 - 130	50.0	50.3	101	0	30
cis-1,3-Dichloropropene	10061-01-5	ND	5.00	50.0	53.6	107	71 - 132	50.0	49.1	98	9	30
Dibromochloromethane	124-48-1	ND	5.00	50.0	53.8	108	71 - 123	50.0	51.6	103	4	30
Dibromomethane	74-95-3	ND	5.00	50.0	51.0	102	72 - 129	50.0	50.2	100	2	30
Dichlorodifluoromethane	75-71-8	ND	5.00	50.0	57.3	115	58 - 140	50.0	52.7	105	8	30
Ethylbenzene	100-41-4	ND	5.00	50.0	51.7	103	74 - 126	50.0	50.9	102	2	30
Hexachlorobutadiene	87-68-3	ND	5.00	50.0	56.8	114	61 - 144	50.0	54.8	110	4	30
Isopropylbenzene (Cumene)	98-82-8	ND	5.00	50.0	53.4	107	71 - 125	50.0	53.3	107	0	30
m,p-Xylene	136777-61-2	ND	10.0	100	104	104	74 - 126	100	101	101	3	30
Methyl iodide	74-88-4	ND	5.00	50.0	46.1	92	57 - 141	50.0	44.9	90	3	30
Methylene chloride	75-09-2	ND	5.00	50.0	50.4	101	68 - 132	50.0	46.2	92	9	30
Naphthalene	91-20-3	ND	5.00	50.0	52.4	105	57 - 138	50.0	53.0	106	1	35
n-Butylbenzene	104-51-8	ND	5.00	50.0	49.7	99	69 - 134	50.0	50.0	100	1	30
n-Propylbenzene	103-65-1	ND	5.00	50.0	49.0	98	75 - 129	50.0	49.4	99	1	30
o-Xylene	95-47-6	ND	5.00	50.0	53.4	107	73 - 130	50.0	52.1	104	2	30
sec-Butylbenzene	135-98-8	ND	5.00	50.0	49.8	100	70 - 136	50.0	50.2	100	1	30
Styrene	100-42-5	ND	5.00	50.0	53.6	107	71 - 127	50.0	51.9	104	3	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	5.00	50.0	49.5	99	71 - 125	50.0	47.4	95	4	30
tert-Butylbenzene	98-06-6	ND	5.00	50.0	51.6	103	72 - 126	50.0	53.3	107	3	30
Tetrachloroethene	127-18-4	ND	5.00	50.0	51.9	104	68 - 128	50.0	50.4	101	3	30
Toluene	108-88-3	ND	5.00	50.0	52.0	104	72 - 120	50.0	49.1	98	6	20
trans-1,2-Dichloroethene	156-60-5	ND	5.00	50.0	51.5	103	69 - 132	50.0	50.6	101	2	30
trans-1,3-Dichloropropene	10061-02-6	ND	5.00	50.0	55.4	111	71 - 131	50.0	50.1	100	10	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	5.00	50.0	52.8	106	56 - 132	50.0	57.6	115	9	30
Trichloroethene	79-01-6	ND	5.00	50.0	52.3	105	76 - 129	50.0	50.0	100	4	20
Trichlorofluoromethane	75-69-4	ND	5.00	50.0	51.6	103	72 - 136	50.0	52.9	106	2	30
Trichlorotrifluoroethane	76-13-1	ND	5.00	50.0	50.5	101	72 - 136	50.0	48.6	97	4	30
Vinyl chloride	75-01-4	ND	2.00	50.0	49.9	100	68 - 132	50.0	51.4	103	3	30
Xylene (total)	1330-20-7	ND	15.0	150	158	105	74 - 127	150	153	102	3	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	50.6	101	50	51.8	104	71 - 127	50	52.6	105	2	NA
4-Bromofluorobenzene	460-00-4	51.3	103	50	52.5	105	78 - 130	50	52.7	105	0	NA
Dibromofluoromethane	1868-53-7	48.5	97	50	50.7	101	77 - 127	50	50	100	1	NA
Toluene d8	2037-26-5	52	104	50	49.6	99	76 - 134	50	47.5	95	4	NA

Analytical Batch	Client ID	MB570294	LCS570294	LCSD570294
570294	GCAL ID	1499444	1499445	1499513
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	10/15/2015 15:33	10/15/2015 13:25	10/15/2015 13:46
	Matrix	Water	Water	Water

EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,2-Dichloroethene(Total)	540-59-0	ND	10.0	100	109	109	74 - 128	100	106	106	3	30
cis-1,2-Dichloroethene	156-59-2	ND	5.00	50	54	108	73 - 130	50	52.6	105	3	30
Tetrachloroethene	127-18-4	ND	5.00	50.0	53.7	107	68 - 128	50.0	51.6	103	4	30
Trichloroethene	79-01-6	ND	5.00	50	54.2	108	76 - 129	50	53.5	107	1	20
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	52.5	105	50	52.4	105	71 - 127	50	51.9	104	1	NA
4-Bromofluorobenzene	460-00-4	47.1	94	50	49.5	99	78 - 130	50	48.9	98	1	NA
Dibromofluoromethane	1868-53-7	53.4	107	50	53	106	77 - 127	50	53	106	0	NA
Toluene d8	2037-26-5	51.8	104	50	50.5	101	76 - 134	50	49.1	98	3	NA

GC/MS Volatiles QC Summary

Analytical Batch	Client ID	CB-IDW-S-01 (TCLP)	1498083MS	1498083MSD
570294	GCAL ID	21510122204	1499540	1499541
	Sample Type	SAMPLE	MS	MSD
	Prep Date	NA	NA	NA
	Analysis Date	10/15/2015 18:30	10/15/2015 19:58	10/15/2015 20:19
	Matrix	Solid	Solid	Solid

EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Tetrachloroethene	127-18-4	0.00	240	2400	2400	100	70 - 127	2400	2360	98	2	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	2.18	109	2000	2080	104	62 - 125	2000	2060	103	1	NA
4-Bromofluorobenzene	460-00-4	1.9	95	2000	2040	102	62 - 127	2000	2030	102	1	NA
Dibromofluoromethane	1868-53-7	2.13	107	2000	2150	108	65 - 130	2000	2110	106	2	NA
Toluene d8	2037-26-5	2.11	106	2000	2000	100	71 - 132	2000	1980	99	1	NA

Analytical Batch	Client ID	COOLING TOWER WASHOUT	1496274MS
570294	GCAL ID	21510071501	1499542
	Sample Type	SAMPLE	MS
	Prep Date	NA	NA
	Analysis Date	10/15/2015 18:51	10/15/2015 20:40
	Matrix	Water	Water

EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R
Tetrachloroethene	127-18-4	0.00	200	2000	2250	113	68 - 128
Trichloroethene	79-01-6	0	200	2000	2240	112	76 - 129
Surrogate							
1,2-Dichloroethane-d4	17060-07-0	2.2	110	2000	2040	102	71 - 127
4-Bromofluorobenzene	460-00-4	1.9	95	2000	2020	101	78 - 130
Dibromofluoromethane	1868-53-7	2.21	111	2000	2170	109	77 - 127
Toluene d8	2037-26-5	2.12	106	2000	2000	100	76 - 134

GCAL ANALYTICAL LABORATORIES, LLC

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

CHAIN OF CUSTODY RECORD

Client ID: 4912 - Clearwater Environmental Resources
SDG: 215101221
PM: SAK

Report to:	Bill to:
Client: Clearwater Env'l Resources	Client: SAME
Address: 3870 Peachtree Ind. Blvd. Ste. 340139, Duluth, GA 30096	Address:
Contact: Jack Wintle	Contact:
Phone: 678-491-4601	Phone:
E-mail: jack.wintle@clearwaterenv.net	E-mail:

P.O. Number: —
Project Name/Number: Rayloc
Sampled By: Jack Wintle

GCAL use only:
Custody Seal used ☐ yes ☐ no; intact ☐ yes ☐ no
Temperature °C 3.6, 4.9, 0.5 E84
259985.1

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

Analytical Requests & Method: EPA Method 8260B (VOCs)

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	No Containers	HCl	Preservative
W	10/6/15			X	MW-1	3	X	1
	10/7/15	0820			MW-2			2
	10/6/15	0950			MW-3			3
	"	1027			MW-4			4
	"	1124			MW-5A			5
	"	1247			MW-6A			6
	"	1532			MW-7			7
	"	1506			MW-8			8
	"	1442			MW-9			9
	10/7/15	1115			MW-10			10
	"	1513			MW-12			11
	"	1404			MW-13			12
	"	1048			MW-15			13

Air Bill No: 7747 0505 4360

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☑ Standard (Per Contract/Quote)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	10/8/15	12:40		10/8/15	12:40
	10/9/15	08:00		10/9/15	0800
	10/9/15	1000	FEDEX		

Note: FedEx 1070-15 9:50 Dodie McClure

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Page 1 of 2

Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

GCAL ANALYTICAL LABORATORIES, LLC

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

CHAIN OF CUSTODY RECORD

Client ID: 4912 - Clearwater Environmental Resources
SDG: 215101221
PM: SAK

Report to:	Bill to:
Client: Clearwater Env'l Resources	Client: SAME
Address: 3870 Peachtree Ind. Blvd. Ste 340139, Duluth, GA 30096	Address:
Contact: Jack Wintle	Contact:
Phone: 678-491-4601	Phone:
E-mail: jack.wintle@clearwaterenv.net	E-mail:

P.O. Number: —
Project Name/Number: Raylac
Sampled By: Jack Wintle

Analytical Requests & Method: EPA Method 8260B (VOCs)

GCAL use only:
Custody Seal: used ☑ yes ☐ no; intact ☑ yes ☐ no
Temperature °C 36, 49, DE24

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	No Containers	HCl	Preservative
W	10/7/15	1037		X	MW-16	3	X	14
	↓	0935			MW-17			15
	10/8/15	0959			MW-18 @ 60'			16
	10/7/15	1005			MW-19			17
	↓	1422			MW-24			18
	10/8/15	1137			RAD-4 @ 98'			19
	↓	0840		↓	RAD-5 @ 85'			20
↓	10/8	~~12:00~~ *			Trip Blank	↓	↓	21

Air Bill No: 7747 0505 4306

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☑ Standard (Per Contract/Quote)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
	10/8/15	12:40		10/8/15	12:40
	10/9/15	08:00		10/9/15	0800
	10/9/15	1000	FEDEX		

Note: FedEx 10-10-15 9:50 Page 2 of 2
Dodie McClure
*Time/date added per client

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue
*Requires prior approval, rush charges may apply.
We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

Revision 1

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

215101221

SAMPLE DELIVERY GROUP 215101221	
Client PM SAK 4912 - Clearwater Environmental Resources	**Transport Method** FEDEX
Profile Number 259985	**Received By** McCune, Dodie N.
Line Item(s) 1 - VOC	**Receive Date(s)** 10/10/15

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☑	☐	☐
Was preservative added to any container at the lab?	☐	☑	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☑	☐	☐
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☑	☐	☐
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☑	☐	☐

COOLERS

Airbill	Thermometer ID: E24	Temp(°C)
774705054366		3.6
		4.9
		0.5

DISCREPANCIES

None

LAB PRESERVATIONS

None

NOTES

Revision 1.4

Page 1 of 1

APPENDIX C
SEPTEMBER & OCTOBER 2015
GROUNDWATER SAMPLING LOGS

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION: Creek
WELL NO: MW-7	SAMPLE ID: MW-7@30'	DATE: 9/21/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 35'	STATIC DEPTH TO WATER (ft): 27.09	WELL CAPACITY (gal/ft): 1/4+

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

PURGE METHOD: LF/LP	PURGE INITIATED AT: 9:00	PURGE ENDED AT: 0931	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	DEPTH TO WATER (ft)	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
0914	1/8	1/8	—	4.81	27.14	20.15	0.282	9.30	210.7	—
0920	< 1/8	> 1/8	—	4.12	27.14	20.16	0.070	1.61	247.7	75.0
0924	< 1/4	> 1/8	—	4.15	27.14	19.96	0.069	1.25	256.3	86.5
0927	< 1/8	< 1/4	—	4.13	27.14	19.85	0.070	0.96	265.2	93.1
0930	< 1/4	< 1/4	—	4.11	27.14	19.81	0.070	0.78	270.8	89.9
				SAMPLE						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge **Tubing Type:** PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle		SAMPLER(S) SIGNATURE(S):
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 0933	SAMPLING ENDED AT: 0940
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):		
	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screene interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION: Railroad	
WELL NO: MW-12	SAMPLE ID: MW-12@60		DATE: 9/21/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 96'	STATIC DEPTH TO WATER (ft): 26.85	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

PURGE METHOD: LF/LP	PURGE INITIATED AT: 1330	PURGE ENDED AT: 1409	TOTAL VOL PURGED (gal): ~1/4

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	DEPTH TO WATER (ft)	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
1346	< 1/8	< 1/8	—	5.26	26.91	20.36	0.065	6.95	233.5	—
1350	< 1/8	< 1/8	—	4.90	26.91	19.33	0.064	4.78	261.6	—
1354	< 1/8	1/8	—	4.51	26.96	18.92	0.063	4.32	292.0	OVR
1357	< 1/8	1/8	—	3.96	26.96	18.63	0.062	3.92	331.2	OVR
1400	< 1/8	> 1/8	—	3.92	26.99	18.57	0.062	3.72	340.0	—
1403	< 1/8	> 1/8	—	4.05	27.00	18.50	0.062	3.63	335.8	—
1406	< 1/8	< 1/4	—	4.16	27.00	18.45	0.062	3.58	332.1	—
1409	< 1/8	< 1/4	—	4.28	27.00	18.47	0.062	3.51	329.2	OVR
				SAMPLE @ 1409						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge	Tubing Type: PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle		SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 1409		SAMPLING ENDED AT: 1418
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screene interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION: Creek	
WELL NO: MW-15	SAMPLE ID: MW-15@30		DATE: 9/21/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 40'	STATIC DEPTH TO WATER (ft): 9.78	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

PURGE METHOD: LF/LP	PURGE INITIATED AT: 1148	PURGE ENDED AT: 1204	TOTAL VOL PURGED (gal): 1/4+

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	DEPTH TO WATER (ft)	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
1151	< 1/8	< 1/8	—	5.66	9.80	19.61	0.093	3.49	63.6	874
1154	1/8	> 1/8	—	5.53	9.80	19.34	0.094	2.28	63.0	OVER
1157	1/8	< 1/4	—	5.49	9.80	19.25	0.093	1.97	65.6	—
1200	1/8	1/4	—	5.45	9.80	19.29	0.092	1.71	67.4	OVER
1204	1/8	> 1/4	—	5.46	9.80	19.34	0.091	1.33	69.0	779
				SAMPLE @ 1204						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge	Tubing Type: PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S): Jack Wintle	
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 1204	SAMPLING ENDED AT: 1206
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screene interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION: Creek	
WELL NO: MW-17	SAMPLE ID: MW-17@30'		DATE: 9/21/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 31'	STATIC DEPTH TO WATER (ft): 8.69	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

PURGE METHOD: LF/LP	PURGE INITIATED AT: 0955	PURGE ENDED AT: 1020	TOTAL VOL PURGED (gal): 1/4+

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	DEPTH TO WATER (ft)	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
1002	<1/8	<1/8	—	5.08	8.71	18.71	0.121	3.20	238.7	122
1005	<1/8	<1/8	—	4.73	8.71	18.45	0.122	1.47	253.1	307
1008	<1/8	>1/8	—	4.62	8.71	18.28	0.121	1.21	259.3	429
1011	<1/8	<1/4	—	4.65	8.73	18.24	0.120	1.01	253.9	725
1014	<1/8	<1/4	—	4.81	8.73	18.23	0.120	0.95	246.7	812
1017	<1/8	1/4	—	4.97	8.73	18.22	0.119	0.89	237.7	880
1020	<1/8	>1/4	—	5.08	8.73	18.20	0.119	0.85	231.5	920
				SAMPLED @ 1020						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge **Tubing Type:** PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle		SAMPLER(S) SIGNATURE(S): Jack Wintle	
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 1020		SAMPLING ENDED AT: 1055
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)		DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- 0.2 Units
ORP: +/- 20 millivolts
DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- 3%
Drawdown: no more than 25% of screene interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION: Creek	
WELL NO: MW-19	SAMPLE ID: MW-19@30		DATE: 9/21/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 35'	STATIC DEPTH TO WATER (ft): 8.70	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

PURGE METHOD: LF/LP	PURGE INITIATED AT: 1105	PURGE ENDED AT: 1127	TOTAL VOL PURGED (gal): 1/4+

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	DEPTH TO WATER (ft)	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
1115	<1/8	<1/8	—	5.93	8.89	19.43	0.215	2.13	-19.2	OVER
1118	<1/8	1/8	—	5.88	8.89	19.26	0.215	0.60	-22.8	926
1121	<1/8	>1/8	—	5.90	8.89	19.03	0.219	0.44	-25.1	—
1124	<1/8	>1/8	—	5.91	8.89	18.88	0.218	0.34	-26.4	819
1127	<1/8	<1/4	—	5.91	8.89	18.84	0.218	0.29	-25.9	640
				SAMPLE @ 1127						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge	Tubing Type: PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 1127	SAMPLING ENDED AT: 1138
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screene interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION: FCHA	
WELL NO: MW-20	SAMPLE ID: MW-20@60'		DATE: 9/22

PURGING DATA

WELL DIAMETER (in.): 2"	TOTAL WELL DEPTH (ft): 20'	STATIC DEPTH TO WATER (ft): 22.13	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

PURGE METHOD: LF/LP	PURGE INITIATED AT: 9:20	PURGE ENDED AT: 9:47	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	DEPTH TO WATER (ft)	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
9:26	7 1/8			5.62	22.24	18.67	0.075	5.52	220.6	269
9:29	↓			5.37	↓	18.77	0.075	5.17	228.4	142
9:32				5.47		18.83	0.075	5.14	226.9	267
9:35				5.61		18.87	0.075	5.00	222.7	293
9:38				5.65		18.90	0.075	5.08	221.9	267
9:41	↓			5.68	↓	18.89	0.075	4.99	220.9	248
		Sampled @ 9:41								

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge	Tubing Type: PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S): Jack Wintle	
SAMPLING METHOD(S): LP/LP	SAMPLING INITIATED AT: 9:41	SAMPLING ENDED AT: 9:47
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screene interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION: Source Area	
WELL NO: MW-21	SAMPLE ID: MW-21@60'		DATE: 9/23/15

PURGING DATA

WELL DIAMETER (in.): 2"	TOTAL WELL DEPTH (ft): 75'	STATIC DEPTH TO WATER (ft): 46.62	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

PURGE METHOD: LF/LP	PURGE INITIATED AT: 11:15	PURGE ENDED AT: 12:06	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	DEPTH TO WATER (ft)	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
11:48	@ 1 1/8			5.50	47.32	26.03	0.225	5.29	199.8	8.66
11:51				5.47		25.04	0.219	5.47	202.0	8.34
11:54				5.48		24.47	0.214	4.72	203.2	7.64
11:57				5.46		24.19	0.212	4.55	205.1	8.05
12:00				5.47		24.43	0.212	4.33	205.3	8.19
12:03				5.47		24.46	0.212	4.87	204.6	6.87
12:06				5.48		24.44	0.212	4.81	204.7	7.22
			Sampled @ 12:06							

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge **Tubing Type:** PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Whipple	SAMPLER(S) SIGNATURE(S): Jack Whipple	
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 12:06	SAMPLING ENDED AT: 12:30
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screene interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION: Source Area
WELL NO: MW-22	SAMPLE ID: MW-22 @ 60'	DATE: 9/22/15

PURGING DATA

WELL DIAMETER (in.): 2"	TOTAL WELL DEPTH (ft): 70'	STATIC DEPTH TO WATER (ft): 43.86'	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

PURGE METHOD: LF/LF	PURGE INITIATED AT: 12:15	PURGE ENDED AT: 12:40	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	DEPTH TO WATER (ft)	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
12:25	1/8			5.19	43.95	23.67	0.067	9.44	200.5	166
12:28				5.03		23.64	0.065	3.59	264.8	160
12:31				5.00		23.61	0.063	2.16	265.5	145
12:34				4.98		23.60	0.062	1.94	265.3	153
12:37				4.96		23.57	0.062	1.85	266.0	166
12:40				4.96		23.62	0.062	1.69	265.9	153

Sampled @ 12:40

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge	Tubing Type: PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle		SAMPLER(S) SIGNATURE(S): Jack Wintle
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 12:40	SAMPLING ENDED AT: 12:48
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screene interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION: Source Area	
WELL NO: MW-23	SAMPLE ID: MW-23@60'		DATE: 9/22/15

PURGING DATA

WELL DIAMETER (in.): 2"	TOTAL WELL DEPTH (ft): 69'	STATIC DEPTH TO WATER (ft): 49.32	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

PURGE METHOD: LF/LP	PURGE INITIATED AT: 10:27	PURGE ENDED AT: 10:48	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	DEPTH TO WATER (ft)	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
10:39	7¼			5.29	49.44	21.37	0.359	3.49	223.3	138
10:42				5.20		21.47	0.362	1.85	229.4	124
10:45				5.18		21.50	0.365	1.49	232.6	123
10:48				5.17		21.52	0.365	1.37	235.0	133
			Sampled @		10:48					

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge	Tubing Type: PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 10:48	SAMPLING ENDED AT: 11:20
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screene interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION: Railroad	
WELL NO: MW-24	SAMPLE ID: MW-24 @ 30'		DATE: 9/21/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft):	STATIC DEPTH TO WATER (ft): 23.08	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

PURGE METHOD: LF/LP	PURGE INITIATED AT: 1425	PURGE ENDED AT: 1445	TOTAL VOL PURGED (gal): ~1/4

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	DEPTH TO WATER (ft)	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
1434	<1/8	<1/4	—	4.80	23.41	19.05	0.181	4.01	283.4	146	
1439	<1/8	<1/8	—	4.82	23.41	19.11	0.181	3.55	284.9	89.2	
1442	<1/8	1/8	—	4.83	23.41	19.16	0.182	3.46	285.4	~~71.8~~	42.9
1445	<1/8	>1/8	—	4.83	23.41	19.26	0.190	3.87	285.9	~~42.9~~	38.1
[redacted]			—								

SAMPLE @ 1445

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge	Tubing Type: PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 1445	SAMPLING ENDED AT: 1510
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screene interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION: FCHA	
WELL NO: PT-3	SAMPLE ID: PT3@60'		DATE: 9/22/15

PURGING DATA

WELL DIAMETER (in.): 2"	TOTAL WELL DEPTH (ft): 67.66'	STATIC DEPTH TO WATER (ft): 22.59	WELL CAPACITY (gal/ft):

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

PURGE METHOD: LF/LP	PURGE INITIATED AT: 8:00	PURGE ENDED AT: 8:27	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	pH	DEPTH TO WATER (ft)	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
8:10	7 1/8			5.87	22.65	19.80	0.124	4.02	162.4	130
8:13				5.85		19.75	0.123	3.71	179.3	90.2
8:16				5.67		19.74	0.123	3.60	185.7	87.0
8:19				5.59		19.70	0.123	3.11	190.2	54.8
8:21				5.65		19.70	0.123	3.05	188.3	46.3
8:24				5.74		19.68	0.123	3.07	184.6	39.9
8:27				5.76		19.67	0.122	3.08	183.3	33.1
			Sampled @ 8:27							

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge Tubing Type: PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle		SAMPLER(S) SIGNATURE(S): Jack Wintle
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 8:27	SAMPLING ENDED AT: 8:40
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screene interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:
WELL NO: MW-1	SAMPLE ID: MW-1	DATE: 10/6/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 33	STATIC DEPTH TO WATER (ft): 24.40	WELL CAPACITY (gal/ft): ~~0.16~~

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY ~~0.058~~ 1.44

PURGE METHOD: Bailing	PURGE INITIATED AT: 8:13	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
8:15	1.5	1.5		24.94	5.37	18.93	0.071	4.40	298	510	
8:25	1.5	3.0		25.36	5.15	20.44	0.067	5.11	344	650	
8:32	2.0	5.0		25.99	5.27	20.58	0.063	8.72	370	~~884~~	
8:35	1.5	6.5		25.97	5.28	20.57	0.063	4.09	355	O/N	
8:38	1.5	8.0		26.03	5.31	20.64	0.063	4.50	354	944	
			SAMPLE								

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A	Tubing Type: N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 8:38	SAMPLING ENDED AT: 8:40
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs ~~Temperature: +/- 5 °F~~ pH: +/- ~~0.2~~ Units 0.1 ~~ORP: +/- 20 millivolts~~	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- ~~3%~~ 5% Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:	
WELL NO: MW-2	SAMPLE ID: MW-2		DATE: 10/6/2015

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 41.0	STATIC DEPTH TO WATER (ft): 32.74	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~

(41.0 - 32.74) x 0.16 = 1.32

PURGE METHOD: ~~Bailing~~ Low Flow with Peristaltic pump	PURGE INITIATED AT: 0907	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
0820	1.5	1.5		33.77	5.70	18.88	0.031	7.66	180	O/V	
0824	1.5	3		34.11	5.76	19.88	0.030	6.59	200	O/V	
0827	1.5	4.5		34.35	5.74	19.83	0.029	5.22	216	O/V	
0830	1.5	6		34.49	5.75	19.97	0.030	5.22	225	O/V	

SAMPLE

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A	Tubing Type: N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): ~~Bailing~~ LF w/ peristaltic	SAMPLING INITIATED AT: 0830	SAMPLING ENDED AT: 0835
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS: Tubing in well.; Peristaltic not pulling up water.

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC	SITE LOCATION:	
WELL NO: MW-3	SAMPLE ID: MW-3	DATE: 10/6/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 29.0	STATIC DEPTH TO WATER (ft): 19.86	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~ (29.0 - 19.86) * 0.16 = 1.46

PURGE METHOD: Bailing	PURGE INITIATED AT: 0939	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
0943	1.5	1.5		20.83	6.32	21.01	0.381	9.23	-74	644	
0946	1.5	3.0		↓	6.49	21.85	0.383	0.92	-87	o/v	
0948	1.5	4.5		↓	6.54	22.05	0.382	8.39	-89	o/v	
0950	1.5	6.0		20.86	6.58	22.09	0.378	8.23	-90	o/v	
				SAMPLE							

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A **Tubing Type:** N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 09:50	SAMPLING ENDED AT:
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- ~~0.2~~ Units 0.1 ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- ~~3%~~ 5% Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC	SITE LOCATION:	
WELL NO: MW-4	SAMPLE ID: MW-4	DATE: 10/6/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 17	STATIC DEPTH TO WATER (ft): 6.62	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~ (17 − 6.62) × 0.16 = 1.66

PURGE METHOD: Bailing	PURGE INITIATED AT: 10:05	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
10:13	1.5	1.5		8.54	~~6.58~~ 6.59	20.32	0.443	0.99	-47	774	
10:15	1.5	3		9.62	6.57	19.97	0.409	3.80	-57	530	
10:17	1.5	4.5		10.70	6.56	19.66	0.359	8.34	-62	352	
10:19	1.5	6.0		11.63	6.57	19.54	0.338	8.79	-61	466	
10:22	1.5	7.5		13.50	6.64	19.27	0.369	8.74	-63	573	
10:25	1.5	9.0		14.36	6.57	19.07	0.343	1.32	-57	o/v	
					SAMPLE						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A	Tubing Type: N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 1027	SAMPLING ENDED AT: 1030
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS: Dark Green Gray Colored water

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:
WELL NO: MW-5A	SAMPLE ID: MW-5A	DATE: 10/6/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 75	STATIC DEPTH TO WATER (ft): 24.86	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~
(75-24.86) x 0.16 = 8.02

PURGE METHOD: Bailing	PURGE INITIATED AT: 10:45	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
11:03	8.0	8.0		26.58	6.37	18.82	0.021	10.46	72	o/v	
11:19	8.0	16		27.16	5.76	18.69	0.019	9.41	145	o/v	
11:29	8.0	24		26.93	5.77	18.65	0.018	9.22	162	o/v	
11:34	8.0	32		26.63	5.59	18.32	0.019	8.93	218	o/v	

SAMPLE

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A	Tubing Type: N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Winkle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailer	SAMPLING INITIATED AT: 11:34	SAMPLING ENDED AT: 11:38
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- ~~0.2~~ Units 0.1 ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- ~~3%~~ 5% Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:
WELL NO: ~~MW-6R~~ MW-6A	SAMPLE ID: ~~MW-6R~~ MW-6A	DATE: 10/6/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): ~~37.45~~ 50.6	STATIC DEPTH TO WATER (ft): 39.92	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = 0.658

(50.6 - 39.92) x 0.16 = 1.71

PURGE METHOD: Bailing	PURGE INITIATED AT: 11:49	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
					5.88						
11:54	1.75	1.75		41.59	~~7.97~~	17.97	0.085	3.10	222	O/V	
12:04	1.75	3.5		43.23	5.92	17.76	0.073	3.04	191	750	
12:18	1.75	5.25			5.80	18.24	0.074	1.71	232	326	
12:23	1.75	7.0		44.37	5.92	17.75	0.078	3.24	206	170	
12:28	1.75	8.75		43.86	6.05	17.70	0.089	8.94	181	740	
12:41	1.75	10.5		45.06	6.98	17.98	0.080	3.35	179	O/V	
12:47	1.75	12.25		45.53	6.00	17.84	0.080	3.77	176	O/V	
					SAMPLE						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A	Tubing Type: N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack winHe	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 12:47	SAMPLING ENDED AT: 12:51
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- ~~.02~~ Units 0.1 ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- ~~3%~~ 5%. Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC	SITE LOCATION:	
WELL NO: MW-7	SAMPLE ID: MW-7	DATE: 10/6/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 35	STATIC DEPTH TO WATER (ft): 26.65	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~ (35 − 26.65) × 0.16 = 1.34

PURGE METHOD: Bailing	PURGE INITIATED AT: 1517	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
1521	1.5	1.5		26.16	5.41	20.18	0.065	3.12	140	O/V	
1523	1.5	3		28.38	5.30	19.59	0.061	8.49	173	O/V	
1525	1.5	4.5		28.82	5.23	19.48	0.058	1.16	191	O/V	
1528	1.5	6		29.05	5.22	19.42	0.055	0.75	210	O/V	
1532	1.5	7.5		29.52	5.30	19.35	0.056	5.58	229	O/V	
					SAMPLE						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A **Tubing Type:** N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 1532	SAMPLING ENDED AT: 1537
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- ~~0.2~~ Units 0.1
ORP: +/- 20 millivolts

DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- ~~3%~~ 5%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC	SITE LOCATION:	
WELL NO: MW-8	SAMPLE ID: MW-8	DATE: 10/6/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 27	STATIC DEPTH TO WATER (ft): 20.73	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.058~~

(27 - 20.73) x 0.16 = 1.00

PURGE METHOD: Bailing	PURGE INITIATED AT: 1455	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
1458	1.0	1.0		21.20	5.78	22.15	0.075	8.21	65	88.8
1500	1.0	2.0		21.51	5.72	21.89	0.070	7.59	91	80.4
1502	1.0	3.0		21.78	5.62	21.60	0.068	7.75	98	103
1504	1.0	4.0		21.82	5.55	21.59	0.066	0.47	109	143
1506	1.0	5.0		21.98	5.45	21.33	0.066	0.82	111	90.3
				SAMPLE						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A Tubing Type: N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wirtle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 1506	SAMPLING ENDED AT: 1510
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- ~~0.2~~ Units 0.1 ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- ~~3%~~ 5% Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:
WELL NO: MW-9	SAMPLE ID: MW-9	DATE: 10/6/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 34	STATIC DEPTH TO WATER (ft): 16.63	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~

(34 - 16.63) x 0.16 = 2.78

PURGE METHOD: Bailing	PURGE INITIATED AT: 1412	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
1421	3	3		17.55	6.24	23.17	0.275	9.64	-12	453
1424	3	6		17.82	6.31	22.70	0.234	1.04	-10	351
1430	3	9		17.74	6.16	22.34	0.201	0.42	8	401
1432	3	12		17.69	6.30	22.58	0.224	1.37	-3	903
1437	3	15		17.45	6.28	22.56	0.195	2.05	-10	560
1442	3	18		17.72	6.31	22.58	0.202	1.69	-3	614
				SAMPLE						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A **Tubing Type:** N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 1442	SAMPLING ENDED AT: 1446
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- 0.2 Units
ORP: +/- 20 millivolts
DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- 3%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC	SITE LOCATION:	
WELL NO: MW-10	SAMPLE ID: MW-10	DATE: 10/7/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 44	STATIC DEPTH TO WATER (ft): 22.40	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~ (44-22.40) x 0.16 = 3.5

PURGE METHOD: Bailing	PURGE INITIATED AT: 1058	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
1103	3.5	3.5		33.46	5.56	18.12	0.064	9.86	147	55.4	
1110	3.5	7		43.51	5.62	17.84	0.064	8.44	133	235	

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A **Tubing Type:** N/A

SAMPLING DATA

SAMPLED BY (PRINT): Zach Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 1115	SAMPLING ENDED AT: 1120
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS: Bailer Nearly Empty / Nearly Dry well.

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:
WELL NO: MW-12	SAMPLE ID: MW-12 @ 60'	DATE: 10/7/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 96	STATIC DEPTH TO WATER (ft): 26.81	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~ (96 − 26.81) × 0.16 = 11.1

PURGE METHOD: LF/LP	PURGE INITIATED AT: 1445	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
1459	< 1/8	< 1/8		26.88	5.26	21.23	0.086	2.99	255	346	
1502	< 1/8	< 1/8		26.88	5.31	20.89	0.097	2.70	272	359	
1506	< 1/8	< 1/8		26.88	5.36	20.58	0.093	2.00	281	365	
1509	< 1/8	> 1/8		26.88	5.34	20.41	0.094	1.88	289	377	
1513	< 1/8	> 1/8		26.89	5.33	20.13	0.097	1.89	295	451	
				SAMPLE							

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge Tubing Type: PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 1513	SAMPLING ENDED AT: 1518
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:
WELL NO: MW-13	SAMPLE ID: MW-13	DATE: 10/7/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 43	STATIC DEPTH TO WATER (ft): 30.36	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY ~~= 0.658~~

(43 − 30.36) × 0.16 = 2.02

PURGE METHOD: Bailing	PURGE INITIATED AT: 1336	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
1342	2.5	2.5		32.24	5.88	19.80	0.061	6.74	140	o/v
1349	2.5	5		34.32	5.95	19.01	0.072	4.05	166	o/v
1356	2.5	7.5		36.01	5.91	18.64	0.074	5.20	195	o/v
1400	2.5	10		36.80	5.99	17.93	0.071	4.72	198	o/v
1404	2.5	12.5		37.72	5.92	18.03	0.071	3.52	200	o/v
					SAMPLE					

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A	Tubing Type: N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 1404	SAMPLING ENDED AT: 1408
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC	SITE LOCATION:	
WELL NO: MW-15	SAMPLE ID: MW-15	DATE: 10/7/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 40	STATIC DEPTH TO WATER (ft): 8.75	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY ~~= 0.868~~ (40-8.75) x 0.16 = 5.0

PURGE METHOD: Bailing	PURGE INITIATED AT: 1016	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
1022	5	5		12.59	5.86	19.72	0.069	7.91	90	0/V	
1026	5	10		13.15	5.65	19.74	0.066	7.95	117	0/V	
1030	5	15		14.02	5.67	19.53	0.061	1.32	115	0/V	
1035	5	20		12.61	5.74	19.80	0.070	6.05	99	0/V	
1040	5	25		13.15	5.80	19.83	0.071	6.97	86	0/V	
1048	5	30		12.72	5.85	19.80	0.074	1.46	85	0/V	
				SAMPLE							

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A	Tubing Type: N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Windle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 1048	SAMPLING ENDED AT: 1052
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- ~~0.2~~ Units 0.1 ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- ~~3%~~ 5% Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:
WELL NO: MW-16	SAMPLE ID: MW-16	DATE: 10/8/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 39	STATIC DEPTH TO WATER (ft): 22.87	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.659~~
(39 - 22.87) x 0.16 = 2.6

PURGE METHOD: Bailing	PURGE INITIATED AT: 1012	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
1021	2.6	2.6		23.27	5.96	21.87	0.093	1.04	87	526
1023	2.6	5.2		23.49	6.08	20.92	0.091	0.68	112	751
1027	2.6	7.8		23.62	5.90	21.12	0.090	0.52	114	453
1030	2.6	10.4		23.42	5.85	21.10	0.091	1.14	116	960
1034	2.6	13		23.72	5.85	20.99	0.091	0.69	117	329
1037	2.6	15.6		23.73	5.99	21.01	0.092	0.87	114	D/U
			SAMPLE							

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A	Tubing Type: N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 1037	SAMPLING ENDED AT: 1041
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):	Turbidity: <10 NTUs Temperature: +/- 5 °F pH: +/- 0.2 Units 0.1 ORP: +/- 20 millivolts	DO: +/- 0.2 mg/l or +/- 10% Specific Conductance: +/- 3% 5% Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:
WELL NO: MW-17	SAMPLE ID: MW-17	DATE: 10/7/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 31	STATIC DEPTH TO WATER (ft): 8.55	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~

(31 - 8.55) × 0.16 = 3.6

PURGE METHOD: Bailing	PURGE INITIATED AT: 0914	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
0918	3.6	3.6		9.01	6.01	18.27	0.126	0.32	147	410
0923	3.6	7.2		10.06	6.30	18.40	0.127	0.89	149	O/V
0927	3.6	10.8		10.40	6.34	18.40	0.129	0.48	146	854
0934	3.6	14.4		10.78	6.30	18.42	0.129	2.56	139	717
				SAMPLE						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A **Tubing Type:** N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 0935	SAMPLING ENDED AT: 0940
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- ~~0.2~~ Units 0.1
ORP: +/- 20 millivolts

DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- ~~3%~~ 5%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:
WELL NO: MW-18	SAMPLE ID: MW-18@60'	DATE: 10/8/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 88	STATIC DEPTH TO WATER (ft): 26.24	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~

PURGE METHOD: LF/LP	PURGE INITIATED AT: 0912	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH ✓	TEMP (°c)	COND. ✓ (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
0940	< 1/8	< 1/8		26.42	6.65	21.40	0.053	6.18	219	o/v	
0943	< 1/8	1/8		26.42	5.74	21.68	0.040	5.54	259	o/v	
0947	< 1/8	> 1/8		26.42	5.38	21.76	0.026	5.56	292	o/v	
0950	< 1/8	> 1/8		26.42	5.31	21.85	0.026	5.37	311	o/v	
0953	< 1/8	< 1/4		26.42	5.22	21.91	0.026	5.27	319	o/v	
0956	< 1/8	< 1/4		26.42	5.18	21.91	0.026	5.13	328	o/v	
0959	< 1/8	1/4		26.42	5.26	21.94	0.026	5.06	329	o/v	
					SAMPLE						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge Tubing Type: PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 0959	SAMPLING ENDED AT: 1004
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- 0.2 Units
ORP: +/- 20 millivolts
DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- 3%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:
WELL NO: MW-19	SAMPLE ID: MW-19	DATE: 10/7/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 30	STATIC DEPTH TO WATER (ft): 8.42	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~ (30 - 8.42) x 0.16 = 3.5

PURGE METHOD: Bailing	PURGE INITIATED AT: 0945	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
0951	3.5	3.5		10.02	6.31	19.18	0.219	7.03	-9	O/V	
0955	3.5	7		10.11	6.40	18.91	0.210	2.09	-24	O/V	
0958	3.5	10.5		10.16	6.39	18.93	0.211	3.82	-19	O/V	
1001	3.5	14		10.41	6.43	19.00	0.212	2.35	-27	O/V	
1005	3.5	17.5		10.42	6.46	18.97	0.204	5.69	-32	O/V	
						SAMPLE					

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A **Tubing Type:** N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 1005	SAMPLING ENDED AT: 1010
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- ~~0.2~~ Units 0.1
ORP: +/- 20 millivolts

DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- ~~3%~~ 5%.
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC	SITE LOCATION:	
WELL NO: MW-24	SAMPLE ID: MW-24	DATE: 10/7/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 35	STATIC DEPTH TO WATER (ft): 23.42	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~ (35 − 23.42) × 0.16 = 1.85

PURGE METHOD: Bailing	PURGE INITIATED AT: 1410	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
1419	2	2		25.05	5.34	18.82	0.249	2.71	261	O/V	
1422	2	4		26.04	5.44	18.36	0.280	2.04	260	O/V	
1426	2	6		25.79	5.48	18.32	0.309	7.68	267	O/V	
1429	2	8		28.71	5.45	18.19	0.288	1.49	268	O/V	
1432	2	10		29.48	5.45	18.08	0.279	2.42	270	O/V	
					SAMPLE						

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: N/A **Tubing Type:** N/A

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): Bailing	SAMPLING INITIATED AT: 1432	SAMPLING ENDED AT: 1438
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- ~~0.2~~ Units 0.1
ORP: +/- 20 millivolts

DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- ~~3%~~ 5%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:
WELL NO: RAD-4	SAMPLE ID: RAD-4 @ 98	DATE: 10/8/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 103	STATIC DEPTH TO WATER (ft): 48.86	WELL CAPACITY (gal/ft): 0.16

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~

PURGE METHOD: LF/LP	PURGE INITIATED AT: 1050	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)
1128	< 1/8	< 1/8		49.09	5.60	27.58	0.144	2.96	109	366
1131	< 1/8	< 1/8		49.14	5.64	27.66	0.154	0.45	82	125
1134	< 1/8	1/4		49.25	5.60	27.59	0.154	0.03	75	72
1137	< 1/8	> 1/8		49.28	5.59	27.49	0.156	0.00	69	44.5
						SAMPLE				

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: PE Micropurge **Tubing Type:** PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle	SAMPLER(S) SIGNATURE(S):	
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 1137	SAMPLING ENDED AT: 1142
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	

Groundwater Parameter Tolerances (if possible):

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- 0.2 Units
ORP: +/- 20 millivolts
DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- 3%
Drawdown: no more than 25% of screened interval above pump intake

MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

Clearwater Environmental Resources, LLC

GROUNDWATER SAMPLING LOG

SITE NAME: RAYLOC		SITE LOCATION:
WELL NO: RAD-5	SAMPLE ID: RAD-5@85'	DATE: 10/7/15

PURGING DATA

WELL DIAMETER (in.): 2	TOTAL WELL DEPTH (ft): 88	STATIC DEPTH TO WATER (ft): 27.24	WELL CAPACITY (gal/ft): 0.65

1 WELL VOLUME (gal) = (TOTAL WELL DEPTH - DEPTH TO WATER) X WELL CAPACITY = ~~0.658~~

PURGE METHOD: LF/LP	PURGE INITIATED AT: 0820	PURGE ENDED AT:	TOTAL VOL PURGED (gal):

TIME	VOLUME PURGED (gal)	CUML. VOLUME PURGED (gal)	PURGE RATE (gpm)	DEPTH TO WATER (ft)	pH	TEMP (°c)	COND. (mS/cm)	DO (mg/L)	ORP (millivolts)	TURB. (NTUs)	
0829	< 1/8	< 1/8		27.08	10.42	18.96	0.472	0.97	102	19.2	
0832	< 1/8	< 1/8		27.08	10.57	18.91	0.474	0.00	79	19.1	
0835	< 1/8	< 1/8		27.11	10.59	18.76	0.475	0.00	68	18.7	

SAMPLE

WELL CAPACITY (gal/ft): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06;2"=0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

Pump Type: QED Micropurge **Tubing Type:** PE

SAMPLING DATA

SAMPLED BY (PRINT): Jack Wintle		SAMPLER(S) SIGNATURE(S):
SAMPLING METHOD(S): LF/LP	SAMPLING INITIATED AT: 0840	SAMPLING ENDED AT: 0845
FIELD DECON: Y (N)	FIELD FILTERED: Y (N)	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION	
NO.	MAT'L CODE	VOLUME	PRESERVATIVE USED	INTENDED ANALYSIS AND/OR METHOD

Groundwater Parameter Tolerances (if possible):

Turbidity: <10 NTUs
Temperature: +/- 5 °F
pH: +/- ~~0.2~~ Units 0.1
ORP: +/- 20 millivolts

DO: +/- 0.2 mg/l or +/- 10%
Specific Conductance: +/- ~~3%~~ 5.1.
Drawdown: no more than 25% of screened interval above pump intake

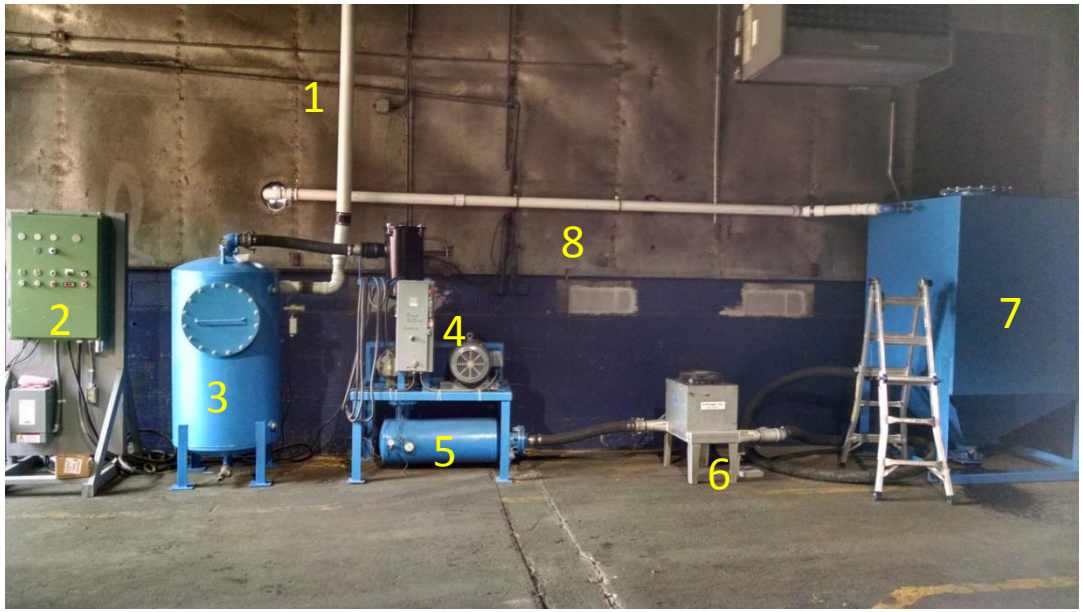
MATERIAL CODES: AG=AMBER GLASS; CG=CLEAR GLASS; PE=POLYETHYLENE; O=OTHER (SPECIFY)

REMARKS:

APPENDIX D
PDA REMEDIAL SYSTEM ILLUSTRATION

Soil Vapor Extraction System Components

1. Vacuum line from extraction well field
2. Control and electrical Cabinet
3. Water knock out tank
4. Vacuum blower and motor
5. Surge tank
6. Air cooled heat exchanger
7. Activated carbon tower containing 2000 lbs
8. Air discharge line to outside



1

1

Nitrogen Gas Injection System Components

1. Electrical Supply and Controls Cabinet
2. Rotary Screw Compressor
3. Backup air compressor
4. Refrigerated air dryer
5. Nitrogen Generator
6. Process Tank
7. Supply Line to injection well field



Soil Remediation Zone

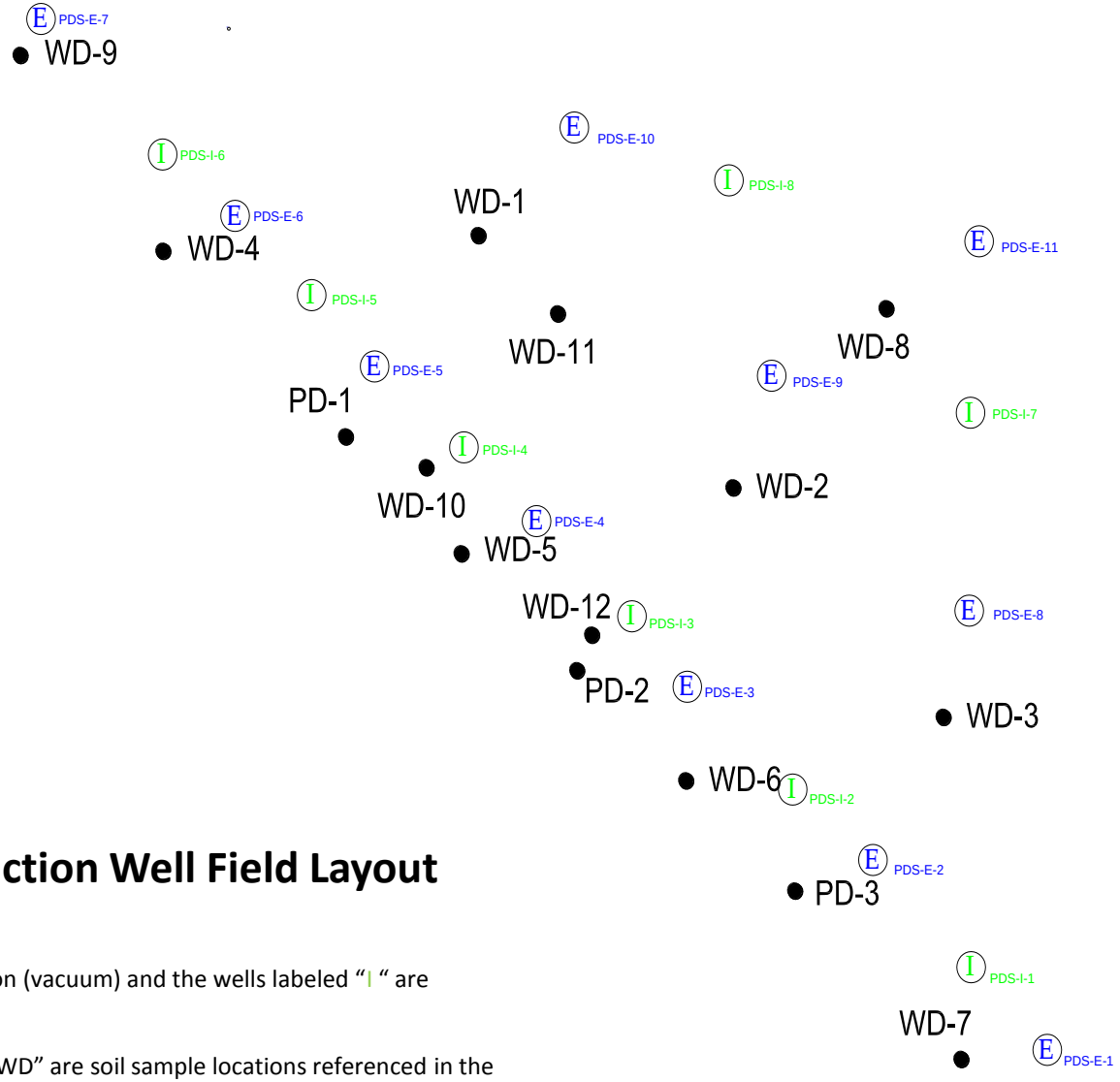
The remediation zone is shown in the top picture A. The safety green cones are located adjacent to the extraction and injection wells.

The point labeled “1” is a typical extraction well, the design of which is shown close up in picture B. The point labeled “2” is a typical injection well, each of which are controlled by individual flow valves as illustrated in picture C.









Injection and Extraction Well Field Layout

The wells labeled "E" are extraction (vacuum) and the wells labeled "I " are injection.

The wells labeled with "PD" and "WD" are soil sample locations referenced in the report.

System Location

Picture A on top shows the remediation well field and (1) the vertical riser vacuum line, and (2) the horizontal vacuum line connecting to the vacuum blower system shown in picture B.

For orientation, the vertical line is labeled “1” in both photos and the horizontal line is labeled “2”.





APPENDIX E
JUNE SOURCE AREA SOIL LABORATORY DATA

NELAP CERTIFICATE NUMBER: 01955
DOD ELAP CERTIFICATE NUMBER: L14-243

ANALYTICAL RESULTS

PERFORMED BY

GCAL, LLC
7979 Innovation Park Dr.
Baton Rouge, LA 70820

Report Date 06/29/2015

GCAL Report 215062206

Deliver To	Clearwater Env. Resources Peachtree Industrial blvd Duluth, GA 30096 678-491-4601
Attn	Jack Wintle

Project Rayloc

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations that may be Utilized in this Report

ND	Indicates the result was Not Detected at the specified reporting limit
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
DL	Detection Limit
DL	Diluted analysis – when appended to Client Sample ID
LOD	Limit of Detection
LOQ	Limit of Quantitation
RE	Re-analysis
N	Metals Matrix Spike or Matrix Spike Duplicate Recovery is outside control limits
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags that may be Utilized in this Report

J or I	Indicates the result is between the MDL and LOQ
U	Indicates the compound was analyzed for but not detected
B	Indicates the analyte was detected in the associated Method Blank
Q	Indicates a non-compliant QC Result (See Q Flag Application Report)
*****	Indicates a non-compliant or not applicable QC recovery or RPD

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.

_____
Authorized Signature
GCAL Report 215062206

Case Narrative

Client: Clearwater Environmental Resources **Report:** 215062206

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the Report Sample Summary page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the EPA 8260B analysis, most samples had to be diluted to bracket the concentration of target analytes within the calibration range of the instrument and/or eliminate interference from non-target background. This is reflected in elevated reporting limits.

Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21506220601	SA-12@15	Solid	06/19/2015 08:52	06/20/2015 10:20
21506220602	SA-12@30	Solid	06/19/2015 08:52	06/20/2015 10:20
21506220603	SA-13@15	Solid	06/19/2015 10:05	06/20/2015 10:20
21506220604	SA-13@30	Solid	06/19/2015 10:05	06/20/2015 10:20
21506220605	SA-14@20	Solid	06/19/2015 11:10	06/20/2015 10:20
21506220606	SA-15@10	Solid	06/19/2015 13:30	06/20/2015 10:20
21506220607	SA-15@30	Solid	06/19/2015 13:30	06/20/2015 10:20
21506220608	SA-17@20	Solid	06/19/2015 13:00	06/20/2015 10:20
21506220609	SA-17@30	Solid	06/19/2015 13:00	06/20/2015 10:20
21506220610	SA-18@15	Solid	06/19/2015 10:45	06/20/2015 10:20
21506220611	SA-18@30	Solid	06/19/2015 10:45	06/20/2015 10:20
21506220612	SA-19@10	Solid	06/19/2015 09:28	06/20/2015 10:20
21506220613	SA-19@30	Solid	06/19/2015 09:28	06/20/2015 10:20
21506220614	TRIP BLANK	Water	06/19/2015 00:00	06/20/2015 10:20

Summary of Compounds Detected

SA-12@15

Collect Date 06/19/2015 08:52 **GCAL ID** 21506220601
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	7190	232	mg/kg
79-01-6	Trichloroethene	128	23.2	mg/kg

SA-12@30

Collect Date 06/19/2015 08:52 **GCAL ID** 21506220602
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	6930	543	mg/kg

SA-13@15

Collect Date 06/19/2015 10:05 **GCAL ID** 21506220603
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	1150	216	mg/kg
79-01-6	Trichloroethene	164	21.6	mg/kg

SA-13@30

Collect Date 06/19/2015 10:05 **GCAL ID** 21506220604
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	6560	591	mg/kg

SA-14@20

Collect Date 06/19/2015 11:10 **GCAL ID** 21506220605
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
95-50-1	1,2-Dichlorobenzene	196	55.3	mg/kg
127-18-4	Tetrachloroethene	3950	553	mg/kg

Summary of Compounds Detected

SA-14@20

Collect Date 06/19/2015 11:10 **GCAL ID** 21506220605
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
79-01-6	Trichloroethene	929	55.3	mg/kg

SA-15@10

Collect Date 06/19/2015 13:30 **GCAL ID** 21506220606
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
95-50-1	1,2-Dichlorobenzene	25.4	13.3	mg/kg
156-59-2	cis-1,2-Dichloroethene	20.0	13.3	mg/kg
127-18-4	Tetrachloroethene	1440	133	mg/kg
79-01-6	Trichloroethene	98.4	13.3	mg/kg

SA-15@30

Collect Date 06/19/2015 13:30 **GCAL ID** 21506220607
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	0.027	0.00426	mg/kg

SA-17@20

Collect Date 06/19/2015 13:00 **GCAL ID** 21506220608
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
95-50-1	1,2-Dichlorobenzene	81.7	45.5	mg/kg
127-18-4	Tetrachloroethene	4790	455	mg/kg
79-01-6	Trichloroethene	75.9	45.5	mg/kg

SA-17@30

Collect Date 06/19/2015 13:00 **GCAL ID** 21506220609
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	2350	153	mg/kg

Summary of Compounds Detected

SA-17@30

Collect Date 06/19/2015 13:00 **GCAL ID** 21506220609
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
79-01-6	Trichloroethene	22.8	15.3	mg/kg

SA-18@15

Collect Date 06/19/2015 10:45 **GCAL ID** 21506220610
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
156-59-2	cis-1,2-Dichloroethene	30.0	29.1	mg/kg
127-18-4	Tetrachloroethene	4230	291	mg/kg
79-01-6	Trichloroethene	46.5	29.1	mg/kg

SA-18@30

Collect Date 06/19/2015 10:45 **GCAL ID** 21506220611
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	2350	296	mg/kg

SA-19@10

Collect Date 06/19/2015 09:28 **GCAL ID** 21506220612
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
95-50-1	1,2-Dichlorobenzene	159	50.1	mg/kg
540-59-0	1,2-Dichloroethene(Total)	127	100	mg/kg
156-59-2	cis-1,2-Dichloroethene	127	50.1	mg/kg
127-18-4	Tetrachloroethene	5230	501	mg/kg
79-01-6	Trichloroethene	374	50.1	mg/kg

Summary of Compounds Detected

SA-19@30	**Collect Date**	06/19/2015 09:28	**GCAL ID**	21506220613
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

CAS#	Parameter	Result	LOQ	Units
127-18-4	Tetrachloroethene	35500	5340	mg/kg

Sample Results

SA-12@15	**Collect Date**	06/19/2015 08:52	**GCAL ID**	21506220601
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/23/2015 20:28	JCK	561428

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	23.2	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	23.2	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	23.2	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	23.2	mg/kg
75-34-3	1,1-Dichloroethane	ND	23.2	mg/kg
75-35-4	1,1-Dichloroethene	ND	23.2	mg/kg
563-58-6	1,1-Dichloropropene	ND	23.2	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	23.2	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	23.2	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	23.2	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	23.2	mg/kg
106-93-4	1,2-Dibromoethane	ND	23.2	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	23.2	mg/kg
107-06-2	1,2-Dichloroethane	ND	23.2	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	46.3	mg/kg
78-87-5	1,2-Dichloropropane	ND	23.2	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	23.2	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	23.2	mg/kg
142-28-9	1,3-Dichloropropane	ND	23.2	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	23.2	mg/kg
594-20-7	2,2-Dichloropropane	ND	23.2	mg/kg
78-93-3	2-Butanone	ND	23.2	mg/kg
95-49-8	2-Chlorotoluene	ND	23.2	mg/kg
591-78-6	2-Hexanone	ND	23.2	mg/kg
106-43-4	4-Chlorotoluene	ND	23.2	mg/kg
99-87-6	4-Isopropyltoluene	ND	23.2	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	23.2	mg/kg
67-64-1	Acetone	ND	116	mg/kg
71-43-2	Benzene	ND	23.2	mg/kg
108-86-1	Bromobenzene	ND	23.2	mg/kg
74-97-5	Bromochloromethane	ND	23.2	mg/kg
75-27-4	Bromodichloromethane	ND	23.2	mg/kg
75-25-2	Bromoform	ND	23.2	mg/kg
74-83-9	Bromomethane	ND	23.2	mg/kg
75-15-0	Carbon disulfide	ND	23.2	mg/kg
56-23-5	Carbon tetrachloride	ND	23.2	mg/kg
108-90-7	Chlorobenzene	ND	23.2	mg/kg
75-00-3	Chloroethane	ND	23.2	mg/kg
67-66-3	Chloroform	ND	23.2	mg/kg
74-87-3	Chloromethane	ND	23.2	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	23.2	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	23.2	mg/kg
124-48-1	Dibromochloromethane	ND	23.2	mg/kg
74-95-3	Dibromomethane	ND	23.2	mg/kg
75-71-8	Dichlorodifluoromethane	ND	23.2	mg/kg
100-41-4	Ethylbenzene	ND	23.2	mg/kg
87-68-3	Hexachlorobutadiene	ND	23.2	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	23.2	mg/kg
136777-61-2	m,p-Xylene	ND	46.3	mg/kg
74-88-4	Methyl iodide	ND	23.2	mg/kg
75-09-2	Methylene chloride	ND	46.3	mg/kg
91-20-3	Naphthalene	ND	23.2	mg/kg
104-51-8	n-Butylbenzene	ND	23.2	mg/kg

Sample Results

SA-12@15	**Collect Date**	06/19/2015 08:52	**GCAL ID**	21506220601
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/23/2015 20:28	JCK	561428

CAS#	Parameter	Result	LOQ	Units
103-65-1	n-Propylbenzene	ND	23.2	mg/kg
95-47-6	o-Xylene	ND	23.2	mg/kg
135-98-8	sec-Butylbenzene	ND	23.2	mg/kg
100-42-5	Styrene	ND	23.2	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	23.2	mg/kg
98-06-6	tert-Butylbenzene	ND	23.2	mg/kg
108-88-3	Toluene	ND	23.2	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	23.2	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	23.2	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	23.2	mg/kg
79-01-6	**Trichloroethene**	**128**	**23.2**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	23.2	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	23.2	mg/kg
75-01-4	Vinyl chloride	ND	23.2	mg/kg
1330-20-7	Xylene (total)	ND	69.5	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	202	199	ug/Kg	98	62 - 127
1868-53-7	Dibromofluoromethane	202	192	ug/Kg	95	65 - 130
2037-26-5	Toluene d8	202	182	ug/Kg	90	71 - 132
17060-07-0	1,2-Dichloroethane-d4	202	188	ug/Kg	93	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	50000	06/23/2015 20:07	HPR	561428

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**7190**	**232**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2020	1950	ug/Kg	96	62 - 127
1868-53-7	Dibromofluoromethane	2020	1900	ug/Kg	94	65 - 130
2037-26-5	Toluene d8	2020	2030	ug/Kg	100	71 - 132
17060-07-0	1,2-Dichloroethane-d4	2020	1880	ug/Kg	93	62 - 125

Sample Results

SA-12@30	**Collect Date**	06/19/2015 08:52	**GCAL ID**	21506220602
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	06/24/2015 17:56	CLH	561499

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	54.3	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	54.3	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	54.3	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	54.3	mg/kg
75-34-3	1,1-Dichloroethane	ND	54.3	mg/kg
75-35-4	1,1-Dichloroethene	ND	54.3	mg/kg
563-58-6	1,1-Dichloropropene	ND	54.3	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	54.3	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	54.3	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	54.3	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	54.3	mg/kg
106-93-4	1,2-Dibromoethane	ND	54.3	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	54.3	mg/kg
107-06-2	1,2-Dichloroethane	ND	54.3	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	109	mg/kg
78-87-5	1,2-Dichloropropane	ND	54.3	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	54.3	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	54.3	mg/kg
142-28-9	1,3-Dichloropropane	ND	54.3	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	54.3	mg/kg
594-20-7	2,2-Dichloropropane	ND	54.3	mg/kg
78-93-3	2-Butanone	ND	54.3	mg/kg
95-49-8	2-Chlorotoluene	ND	54.3	mg/kg
591-78-6	2-Hexanone	ND	54.3	mg/kg
106-43-4	4-Chlorotoluene	ND	54.3	mg/kg
99-87-6	4-Isopropyltoluene	ND	54.3	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	54.3	mg/kg
67-64-1	Acetone	ND	272	mg/kg
71-43-2	Benzene	ND	54.3	mg/kg
108-86-1	Bromobenzene	ND	54.3	mg/kg
74-97-5	Bromochloromethane	ND	54.3	mg/kg
75-27-4	Bromodichloromethane	ND	54.3	mg/kg
75-25-2	Bromoform	ND	54.3	mg/kg
74-83-9	Bromomethane	ND	54.3	mg/kg
75-15-0	Carbon disulfide	ND	54.3	mg/kg
56-23-5	Carbon tetrachloride	ND	54.3	mg/kg
108-90-7	Chlorobenzene	ND	54.3	mg/kg
75-00-3	Chloroethane	ND	54.3	mg/kg
67-66-3	Chloroform	ND	54.3	mg/kg
74-87-3	Chloromethane	ND	54.3	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	54.3	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	54.3	mg/kg
124-48-1	Dibromochloromethane	ND	54.3	mg/kg
74-95-3	Dibromomethane	ND	54.3	mg/kg
75-71-8	Dichlorodifluoromethane	ND	54.3	mg/kg
100-41-4	Ethylbenzene	ND	54.3	mg/kg
87-68-3	Hexachlorobutadiene	ND	54.3	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	54.3	mg/kg
136777-61-2	m,p-Xylene	ND	109	mg/kg
74-88-4	Methyl iodide	ND	54.3	mg/kg
75-09-2	Methylene chloride	ND	109	mg/kg
91-20-3	Naphthalene	ND	54.3	mg/kg
104-51-8	n-Butylbenzene	ND	54.3	mg/kg

Sample Results

SA-12@30	**Collect Date**	06/19/2015 08:52	**GCAL ID**	21506220602
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	06/24/2015 17:56	CLH	561499

CAS#	Parameter	Result	LOQ	Units
103-65-1	n-Propylbenzene	ND	54.3	mg/kg
95-47-6	o-Xylene	ND	54.3	mg/kg
135-98-8	sec-Butylbenzene	ND	54.3	mg/kg
100-42-5	Styrene	ND	54.3	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	54.3	mg/kg
98-06-6	tert-Butylbenzene	ND	54.3	mg/kg
108-88-3	Toluene	ND	54.3	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	54.3	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	54.3	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	54.3	mg/kg
79-01-6	Trichloroethene	ND	54.3	mg/kg
75-69-4	Trichlorofluoromethane	ND	54.3	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	54.3	mg/kg
75-01-4	Vinyl chloride	ND	54.3	mg/kg
1330-20-7	Xylene (total)	ND	163	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	460	475	ug/Kg	103	62 - 127
1868-53-7	Dibromofluoromethane	460	497	ug/Kg	108	65 - 130
2037-26-5	Toluene d8	460	456	ug/Kg	99	71 - 132
17060-07-0	1,2-Dichloroethane-d4	460	480	ug/Kg	104	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100000	06/24/2015 15:24	CLH	561499

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**6930**	**543**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	4600	4650	ug/Kg	101	62 - 127
1868-53-7	Dibromofluoromethane	4600	4910	ug/Kg	107	65 - 130
2037-26-5	Toluene d8	4600	4690	ug/Kg	102	71 - 132
17060-07-0	1,2-Dichloroethane-d4	4600	4840	ug/Kg	105	62 - 125

Sample Results

SA-13@15	**Collect Date**	06/19/2015 10:05	**GCAL ID**	21506220603
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/23/2015 22:41	JCK	561428

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	21.6	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	21.6	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	21.6	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	21.6	mg/kg
75-34-3	1,1-Dichloroethane	ND	21.6	mg/kg
75-35-4	1,1-Dichloroethene	ND	21.6	mg/kg
563-58-6	1,1-Dichloropropene	ND	21.6	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	21.6	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	21.6	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	21.6	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	21.6	mg/kg
106-93-4	1,2-Dibromoethane	ND	21.6	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	21.6	mg/kg
107-06-2	1,2-Dichloroethane	ND	21.6	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	43.2	mg/kg
78-87-5	1,2-Dichloropropane	ND	21.6	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	21.6	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	21.6	mg/kg
142-28-9	1,3-Dichloropropane	ND	21.6	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	21.6	mg/kg
594-20-7	2,2-Dichloropropane	ND	21.6	mg/kg
78-93-3	2-Butanone	ND	21.6	mg/kg
95-49-8	2-Chlorotoluene	ND	21.6	mg/kg
591-78-6	2-Hexanone	ND	21.6	mg/kg
106-43-4	4-Chlorotoluene	ND	21.6	mg/kg
99-87-6	4-Isopropyltoluene	ND	21.6	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	21.6	mg/kg
67-64-1	Acetone	ND	108	mg/kg
71-43-2	Benzene	ND	21.6	mg/kg
108-86-1	Bromobenzene	ND	21.6	mg/kg
74-97-5	Bromochloromethane	ND	21.6	mg/kg
75-27-4	Bromodichloromethane	ND	21.6	mg/kg
75-25-2	Bromoform	ND	21.6	mg/kg
74-83-9	Bromomethane	ND	21.6	mg/kg
75-15-0	Carbon disulfide	ND	21.6	mg/kg
56-23-5	Carbon tetrachloride	ND	21.6	mg/kg
108-90-7	Chlorobenzene	ND	21.6	mg/kg
75-00-3	Chloroethane	ND	21.6	mg/kg
67-66-3	Chloroform	ND	21.6	mg/kg
74-87-3	Chloromethane	ND	21.6	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	21.6	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	21.6	mg/kg
124-48-1	Dibromochloromethane	ND	21.6	mg/kg
74-95-3	Dibromomethane	ND	21.6	mg/kg
75-71-8	Dichlorodifluoromethane	ND	21.6	mg/kg
100-41-4	Ethylbenzene	ND	21.6	mg/kg
87-68-3	Hexachlorobutadiene	ND	21.6	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	21.6	mg/kg
136777-61-2	m,p-Xylene	ND	43.2	mg/kg
74-88-4	Methyl iodide	ND	21.6	mg/kg
75-09-2	Methylene chloride	ND	43.2	mg/kg
91-20-3	Naphthalene	ND	21.6	mg/kg
104-51-8	n-Butylbenzene	ND	21.6	mg/kg

Sample Results

SA-13@15	**Collect Date**	06/19/2015 10:05	**GCAL ID**	21506220603
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued)

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/23/2015 22:41	JCK	561428

CAS#	Parameter	Result	LOQ	Units
103-65-1	n-Propylbenzene	ND	21.6	mg/kg
95-47-6	o-Xylene	ND	21.6	mg/kg
135-98-8	sec-Butylbenzene	ND	21.6	mg/kg
100-42-5	Styrene	ND	21.6	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	21.6	mg/kg
98-06-6	tert-Butylbenzene	ND	21.6	mg/kg
108-88-3	Toluene	ND	21.6	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	21.6	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	21.6	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	21.6	mg/kg
79-01-6	**Trichloroethene**	**164**	**21.6**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	21.6	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	21.6	mg/kg
75-01-4	Vinyl chloride	ND	21.6	mg/kg
1330-20-7	Xylene (total)	ND	64.8	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	185	183	ug/Kg	99	62 - 127
1868-53-7	Dibromofluoromethane	185	177	ug/Kg	96	65 - 130
2037-26-5	Toluene d8	185	188	ug/Kg	102	71 - 132
17060-07-0	1,2-Dichloroethane-d4	185	173	ug/Kg	94	62 - 125

EPA 8260B

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	50000	06/23/2015 22:19	JCK	561428

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**1150**	**216**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1850	1830	ug/Kg	99	62 - 127
1868-53-7	Dibromofluoromethane	1850	1780	ug/Kg	96	65 - 130
2037-26-5	Toluene d8	1850	1890	ug/Kg	102	71 - 132
17060-07-0	1,2-Dichloroethane-d4	1850	1760	ug/Kg	95	62 - 125

Sample Results

SA-13@30	**Collect Date**	06/19/2015 10:05	**GCAL ID**	21506220604
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	06/24/2015 18:17	CLH	561499

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	59.1	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	59.1	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	59.1	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	59.1	mg/kg
75-34-3	1,1-Dichloroethane	ND	59.1	mg/kg
75-35-4	1,1-Dichloroethene	ND	59.1	mg/kg
563-58-6	1,1-Dichloropropene	ND	59.1	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	59.1	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	59.1	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	59.1	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	59.1	mg/kg
106-93-4	1,2-Dibromoethane	ND	59.1	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	59.1	mg/kg
107-06-2	1,2-Dichloroethane	ND	59.1	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	118	mg/kg
78-87-5	1,2-Dichloropropane	ND	59.1	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	59.1	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	59.1	mg/kg
142-28-9	1,3-Dichloropropane	ND	59.1	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	59.1	mg/kg
594-20-7	2,2-Dichloropropane	ND	59.1	mg/kg
78-93-3	2-Butanone	ND	59.1	mg/kg
95-49-8	2-Chlorotoluene	ND	59.1	mg/kg
591-78-6	2-Hexanone	ND	59.1	mg/kg
106-43-4	4-Chlorotoluene	ND	59.1	mg/kg
99-87-6	4-Isopropyltoluene	ND	59.1	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	59.1	mg/kg
67-64-1	Acetone	ND	296	mg/kg
71-43-2	Benzene	ND	59.1	mg/kg
108-86-1	Bromobenzene	ND	59.1	mg/kg
74-97-5	Bromochloromethane	ND	59.1	mg/kg
75-27-4	Bromodichloromethane	ND	59.1	mg/kg
75-25-2	Bromoform	ND	59.1	mg/kg
74-83-9	Bromomethane	ND	59.1	mg/kg
75-15-0	Carbon disulfide	ND	59.1	mg/kg
56-23-5	Carbon tetrachloride	ND	59.1	mg/kg
108-90-7	Chlorobenzene	ND	59.1	mg/kg
75-00-3	Chloroethane	ND	59.1	mg/kg
67-66-3	Chloroform	ND	59.1	mg/kg
74-87-3	Chloromethane	ND	59.1	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	59.1	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	59.1	mg/kg
124-48-1	Dibromochloromethane	ND	59.1	mg/kg
74-95-3	Dibromomethane	ND	59.1	mg/kg
75-71-8	Dichlorodifluoromethane	ND	59.1	mg/kg
100-41-4	Ethylbenzene	ND	59.1	mg/kg
87-68-3	Hexachlorobutadiene	ND	59.1	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	59.1	mg/kg
136777-61-2	m,p-Xylene	ND	118	mg/kg
74-88-4	Methyl iodide	ND	59.1	mg/kg
75-09-2	Methylene chloride	ND	118	mg/kg
91-20-3	Naphthalene	ND	59.1	mg/kg
104-51-8	n-Butylbenzene	ND	59.1	mg/kg

Sample Results

SA-13@30	**Collect Date**	06/19/2015 10:05	**GCAL ID**	21506220604
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued)

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	06/24/2015 18:17	CLH	561499

CAS#	Parameter	Result	LOQ	Units
103-65-1	n-Propylbenzene	ND	59.1	mg/kg
95-47-6	o-Xylene	ND	59.1	mg/kg
135-98-8	sec-Butylbenzene	ND	59.1	mg/kg
100-42-5	Styrene	ND	59.1	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	59.1	mg/kg
98-06-6	tert-Butylbenzene	ND	59.1	mg/kg
108-88-3	Toluene	ND	59.1	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	59.1	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	59.1	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	59.1	mg/kg
79-01-6	Trichloroethene	ND	59.1	mg/kg
75-69-4	Trichlorofluoromethane	ND	59.1	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	59.1	mg/kg
75-01-4	Vinyl chloride	ND	59.1	mg/kg
1330-20-7	Xylene (total)	ND	177	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	503	533	ug/Kg	106	62 - 127
1868-53-7	Dibromofluoromethane	503	525	ug/Kg	104	65 - 130
2037-26-5	Toluene d8	503	499	ug/Kg	99	71 - 132
17060-07-0	1,2-Dichloroethane-d4	503	521	ug/Kg	104	62 - 125

EPA 8260B

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100000	06/24/2015 15:47	CLH	561499

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**6560**	**591**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	5030	5160	ug/Kg	103	62 - 127
1868-53-7	Dibromofluoromethane	5030	5480	ug/Kg	109	65 - 130
2037-26-5	Toluene d8	5030	5180	ug/Kg	103	71 - 132
17060-07-0	1,2-Dichloroethane-d4	5030	5250	ug/Kg	104	62 - 125

Sample Results

SA-14@20	**Collect Date**	06/19/2015 11:10	**GCAL ID**	21506220605
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	06/24/2015 18:38	CLH	561499

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	55.3	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	55.3	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	55.3	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	55.3	mg/kg
75-34-3	1,1-Dichloroethane	ND	55.3	mg/kg
75-35-4	1,1-Dichloroethene	ND	55.3	mg/kg
563-58-6	1,1-Dichloropropene	ND	55.3	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	55.3	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	55.3	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	55.3	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	55.3	mg/kg
106-93-4	1,2-Dibromoethane	ND	55.3	mg/kg
95-50-1	**1,2-Dichlorobenzene**	**196**	**55.3**	**mg/kg**
107-06-2	1,2-Dichloroethane	ND	55.3	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	111	mg/kg
78-87-5	1,2-Dichloropropane	ND	55.3	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	55.3	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	55.3	mg/kg
142-28-9	1,3-Dichloropropane	ND	55.3	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	55.3	mg/kg
594-20-7	2,2-Dichloropropane	ND	55.3	mg/kg
78-93-3	2-Butanone	ND	55.3	mg/kg
95-49-8	2-Chlorotoluene	ND	55.3	mg/kg
591-78-6	2-Hexanone	ND	55.3	mg/kg
106-43-4	4-Chlorotoluene	ND	55.3	mg/kg
99-87-6	4-Isopropyltoluene	ND	55.3	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	55.3	mg/kg
67-64-1	Acetone	ND	276	mg/kg
71-43-2	Benzene	ND	55.3	mg/kg
108-86-1	Bromobenzene	ND	55.3	mg/kg
74-97-5	Bromochloromethane	ND	55.3	mg/kg
75-27-4	Bromodichloromethane	ND	55.3	mg/kg
75-25-2	Bromoform	ND	55.3	mg/kg
74-83-9	Bromomethane	ND	55.3	mg/kg
75-15-0	Carbon disulfide	ND	55.3	mg/kg
56-23-5	Carbon tetrachloride	ND	55.3	mg/kg
108-90-7	Chlorobenzene	ND	55.3	mg/kg
75-00-3	Chloroethane	ND	55.3	mg/kg
67-66-3	Chloroform	ND	55.3	mg/kg
74-87-3	Chloromethane	ND	55.3	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	55.3	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	55.3	mg/kg
124-48-1	Dibromochloromethane	ND	55.3	mg/kg
74-95-3	Dibromomethane	ND	55.3	mg/kg
75-71-8	Dichlorodifluoromethane	ND	55.3	mg/kg
100-41-4	Ethylbenzene	ND	55.3	mg/kg
87-68-3	Hexachlorobutadiene	ND	55.3	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	55.3	mg/kg
136777-61-2	m,p-Xylene	ND	111	mg/kg
74-88-4	Methyl iodide	ND	55.3	mg/kg
75-09-2	Methylene chloride	ND	111	mg/kg
91-20-3	Naphthalene	ND	55.3	mg/kg
104-51-8	n-Butylbenzene	ND	55.3	mg/kg

Sample Results

SA-14@20	**Collect Date**	06/19/2015 11:10	**GCAL ID**	21506220605
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued)

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	06/24/2015 18:38	CLH	561499

CAS#	Parameter	Result	LOQ	Units
103-65-1	n-Propylbenzene	ND	55.3	mg/kg
95-47-6	o-Xylene	ND	55.3	mg/kg
135-98-8	sec-Butylbenzene	ND	55.3	mg/kg
100-42-5	Styrene	ND	55.3	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	55.3	mg/kg
98-06-6	tert-Butylbenzene	ND	55.3	mg/kg
108-88-3	Toluene	ND	55.3	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	55.3	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	55.3	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	55.3	mg/kg
79-01-6	**Trichloroethene**	**929**	**55.3**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	55.3	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	55.3	mg/kg
75-01-4	Vinyl chloride	ND	55.3	mg/kg
1330-20-7	Xylene (total)	ND	166	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	435	454	ug/Kg	104	62 - 127
1868-53-7	Dibromofluoromethane	435	460	ug/Kg	106	65 - 130
2037-26-5	Toluene d8	435	438	ug/Kg	101	71 - 132
17060-07-0	1,2-Dichloroethane-d4	435	438	ug/Kg	101	62 - 125

EPA 8260B

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100000	06/24/2015 16:09	CLH	561499

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**3950**	**553**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	4350	4400	ug/Kg	101	62 - 127
1868-53-7	Dibromofluoromethane	4350	4700	ug/Kg	108	65 - 130
2037-26-5	Toluene d8	4350	4450	ug/Kg	102	71 - 132
17060-07-0	1,2-Dichloroethane-d4	4350	4470	ug/Kg	103	62 - 125

Sample Results

SA-15@10	**Collect Date**	06/19/2015 13:30	**GCAL ID**	21506220606
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	2500	06/24/2015 19:00	CLH	561499

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	13.3	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	13.3	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	13.3	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	13.3	mg/kg
75-34-3	1,1-Dichloroethane	ND	13.3	mg/kg
75-35-4	1,1-Dichloroethene	ND	13.3	mg/kg
563-58-6	1,1-Dichloropropene	ND	13.3	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	13.3	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	13.3	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	13.3	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	13.3	mg/kg
106-93-4	1,2-Dibromoethane	ND	13.3	mg/kg
95-50-1	**1,2-Dichlorobenzene**	**25.4**	**13.3**	**mg/kg**
107-06-2	1,2-Dichloroethane	ND	13.3	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	26.6	mg/kg
78-87-5	1,2-Dichloropropane	ND	13.3	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	13.3	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	13.3	mg/kg
142-28-9	1,3-Dichloropropane	ND	13.3	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	13.3	mg/kg
594-20-7	2,2-Dichloropropane	ND	13.3	mg/kg
78-93-3	2-Butanone	ND	13.3	mg/kg
95-49-8	2-Chlorotoluene	ND	13.3	mg/kg
591-78-6	2-Hexanone	ND	13.3	mg/kg
106-43-4	4-Chlorotoluene	ND	13.3	mg/kg
99-87-6	4-Isopropyltoluene	ND	13.3	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	13.3	mg/kg
67-64-1	Acetone	ND	66.4	mg/kg
71-43-2	Benzene	ND	13.3	mg/kg
108-86-1	Bromobenzene	ND	13.3	mg/kg
74-97-5	Bromochloromethane	ND	13.3	mg/kg
75-27-4	Bromodichloromethane	ND	13.3	mg/kg
75-25-2	Bromoform	ND	13.3	mg/kg
74-83-9	Bromomethane	ND	13.3	mg/kg
75-15-0	Carbon disulfide	ND	13.3	mg/kg
56-23-5	Carbon tetrachloride	ND	13.3	mg/kg
108-90-7	Chlorobenzene	ND	13.3	mg/kg
75-00-3	Chloroethane	ND	13.3	mg/kg
67-66-3	Chloroform	ND	13.3	mg/kg
74-87-3	Chloromethane	ND	13.3	mg/kg
156-59-2	**cis-1,2-Dichloroethene**	**20.0**	**13.3**	**mg/kg**
10061-01-5	cis-1,3-Dichloropropene	ND	13.3	mg/kg
124-48-1	Dibromochloromethane	ND	13.3	mg/kg
74-95-3	Dibromomethane	ND	13.3	mg/kg
75-71-8	Dichlorodifluoromethane	ND	13.3	mg/kg
100-41-4	Ethylbenzene	ND	13.3	mg/kg
87-68-3	Hexachlorobutadiene	ND	13.3	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	13.3	mg/kg
136777-61-2	m,p-Xylene	ND	26.6	mg/kg
74-88-4	Methyl iodide	ND	13.3	mg/kg
75-09-2	Methylene chloride	ND	26.6	mg/kg
91-20-3	Naphthalene	ND	13.3	mg/kg
104-51-8	n-Butylbenzene	ND	13.3	mg/kg

Sample Results

SA-15@10	**Collect Date**	06/19/2015 13:30	**GCAL ID**	21506220606
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued)

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	2500	06/24/2015 19:00	CLH	561499

CAS#	Parameter	Result	LOQ	Units
103-65-1	n-Propylbenzene	ND	13.3	mg/kg
95-47-6	o-Xylene	ND	13.3	mg/kg
135-98-8	sec-Butylbenzene	ND	13.3	mg/kg
100-42-5	Styrene	ND	13.3	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	13.3	mg/kg
98-06-6	tert-Butylbenzene	ND	13.3	mg/kg
108-88-3	Toluene	ND	13.3	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	13.3	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	13.3	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	13.3	mg/kg
79-01-6	**Trichloroethene**	**98.4**	**13.3**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	13.3	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	13.3	mg/kg
75-01-4	Vinyl chloride	ND	13.3	mg/kg
1330-20-7	Xylene (total)	ND	39.9	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	116	123	ug/Kg	106	62 - 127
1868-53-7	Dibromofluoromethane	116	123	ug/Kg	106	65 - 130
2037-26-5	Toluene d8	116	119	ug/Kg	103	71 - 132
17060-07-0	1,2-Dichloroethane-d4	116	117	ug/Kg	101	62 - 125

EPA 8260B

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	25000	06/24/2015 16:30	CLH	561499

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**1440**	**133**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1160	1170	ug/Kg	101	62 - 127
1868-53-7	Dibromofluoromethane	1160	1260	ug/Kg	109	65 - 130
2037-26-5	Toluene d8	1160	1190	ug/Kg	103	71 - 132
17060-07-0	1,2-Dichloroethane-d4	1160	1200	ug/Kg	104	62 - 125

Sample Results

SA-15@30	**Collect Date**	06/19/2015 13:30	**GCAL ID**	21506220607
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	06/27/2015 21:46	JCK	561799

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.00426	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	0.00426	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.00426	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	0.00426	mg/kg
75-34-3	1,1-Dichloroethane	ND	0.00426	mg/kg
75-35-4	1,1-Dichloroethene	ND	0.00426	mg/kg
563-58-6	1,1-Dichloropropene	ND	0.00426	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	0.00426	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	0.00426	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	0.00426	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.00426	mg/kg
106-93-4	1,2-Dibromoethane	ND	0.00426	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	0.00426	mg/kg
107-06-2	1,2-Dichloroethane	ND	0.00426	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	0.00853	mg/kg
78-87-5	1,2-Dichloropropane	ND	0.00426	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	0.00426	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	0.00426	mg/kg
142-28-9	1,3-Dichloropropane	ND	0.00426	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	0.00426	mg/kg
594-20-7	2,2-Dichloropropane	ND	0.00426	mg/kg
78-93-3	2-Butanone	ND	0.00426	mg/kg
95-49-8	2-Chlorotoluene	ND	0.00426	mg/kg
591-78-6	2-Hexanone	ND	0.00426	mg/kg
106-43-4	4-Chlorotoluene	ND	0.00426	mg/kg
99-87-6	4-Isopropyltoluene	ND	0.00426	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	0.00426	mg/kg
67-64-1	Acetone	ND	0.021	mg/kg
71-43-2	Benzene	ND	0.00426	mg/kg
108-86-1	Bromobenzene	ND	0.00426	mg/kg
74-97-5	Bromochloromethane	ND	0.00426	mg/kg
75-27-4	Bromodichloromethane	ND	0.00426	mg/kg
75-25-2	Bromoform	ND	0.00426	mg/kg
74-83-9	Bromomethane	ND	0.00426	mg/kg
75-15-0	Carbon disulfide	ND	0.00426	mg/kg
56-23-5	Carbon tetrachloride	ND	0.00426	mg/kg
108-90-7	Chlorobenzene	ND	0.00426	mg/kg
75-00-3	Chloroethane	ND	0.00426	mg/kg
67-66-3	Chloroform	ND	0.00426	mg/kg
74-87-3	Chloromethane	ND	0.00426	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	0.00426	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	0.00426	mg/kg
124-48-1	Dibromochloromethane	ND	0.00426	mg/kg
74-95-3	Dibromomethane	ND	0.00426	mg/kg
75-71-8	Dichlorodifluoromethane	ND	0.00426	mg/kg
100-41-4	Ethylbenzene	ND	0.00426	mg/kg
87-68-3	Hexachlorobutadiene	ND	0.00426	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	0.00426	mg/kg
136777-61-2	m,p-Xylene	ND	0.00853	mg/kg
74-88-4	Methyl iodide	ND	0.00426	mg/kg
75-09-2	Methylene chloride	ND	0.00853	mg/kg
91-20-3	Naphthalene	ND	0.00426	mg/kg
104-51-8	n-Butylbenzene	ND	0.00426	mg/kg

Sample Results

SA-15@30

Collect Date	06/19/2015 13:30	**GCAL ID**	21506220607
Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	06/27/2015 21:46	JCK	561799

CAS#	Parameter	Result	LOQ	Units
103-65-1	n-Propylbenzene	ND	0.00426	mg/kg
95-47-6	o-Xylene	ND	0.00426	mg/kg
135-98-8	sec-Butylbenzene	ND	0.00426	mg/kg
100-42-5	Styrene	ND	0.00426	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	0.00426	mg/kg
98-06-6	tert-Butylbenzene	ND	0.00426	mg/kg
127-18-4	**Tetrachloroethene**	**0.027**	**0.00426**	**mg/kg**
108-88-3	Toluene	ND	0.00426	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	0.00426	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	0.00426	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	0.00426	mg/kg
79-01-6	Trichloroethene	ND	0.00426	mg/kg
75-69-4	Trichlorofluoromethane	ND	0.00426	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	0.00426	mg/kg
75-01-4	Vinyl chloride	ND	0.00426	mg/kg
1330-20-7	Xylene (total)	ND	0.013	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	0.04	.04	ug/Kg	99	62 - 127
1868-53-7	Dibromofluoromethane	0.04	.04	ug/Kg	99	65 - 130
2037-26-5	Toluene d8	0.04	.041	ug/Kg	102	71 - 132
17060-07-0	1,2-Dichloroethane-d4	0.04	.045	ug/Kg	111	62 - 125

SA-17@20

Collect Date	06/19/2015 13:00	**GCAL ID**	21506220608
Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	06/24/2015 19:42	CLH	561499

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	45.5	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	45.5	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	45.5	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	45.5	mg/kg
75-34-3	1,1-Dichloroethane	ND	45.5	mg/kg
75-35-4	1,1-Dichloroethene	ND	45.5	mg/kg
563-58-6	1,1-Dichloropropene	ND	45.5	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	45.5	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	45.5	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	45.5	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	45.5	mg/kg
106-93-4	1,2-Dibromoethane	ND	45.5	mg/kg
95-50-1	**1,2-Dichlorobenzene**	**81.7**	**45.5**	**mg/kg**
107-06-2	1,2-Dichloroethane	ND	45.5	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	91.1	mg/kg
78-87-5	1,2-Dichloropropane	ND	45.5	mg/kg

Sample Results

SA-17@20	**Collect Date**	06/19/2015 13:00	**GCAL ID**	21506220608
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	06/24/2015 19:42	CLH	561499

CAS#	Parameter	Result	LOQ	Units
108-67-8	1,3,5-Trimethylbenzene	ND	45.5	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	45.5	mg/kg
142-28-9	1,3-Dichloropropane	ND	45.5	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	45.5	mg/kg
594-20-7	2,2-Dichloropropane	ND	45.5	mg/kg
78-93-3	2-Butanone	ND	45.5	mg/kg
95-49-8	2-Chlorotoluene	ND	45.5	mg/kg
591-78-6	2-Hexanone	ND	45.5	mg/kg
106-43-4	4-Chlorotoluene	ND	45.5	mg/kg
99-87-6	4-Isopropyltoluene	ND	45.5	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	45.5	mg/kg
67-64-1	Acetone	ND	228	mg/kg
71-43-2	Benzene	ND	45.5	mg/kg
108-86-1	Bromobenzene	ND	45.5	mg/kg
74-97-5	Bromochloromethane	ND	45.5	mg/kg
75-27-4	Bromodichloromethane	ND	45.5	mg/kg
75-25-2	Bromoform	ND	45.5	mg/kg
74-83-9	Bromomethane	ND	45.5	mg/kg
75-15-0	Carbon disulfide	ND	45.5	mg/kg
56-23-5	Carbon tetrachloride	ND	45.5	mg/kg
108-90-7	Chlorobenzene	ND	45.5	mg/kg
75-00-3	Chloroethane	ND	45.5	mg/kg
67-66-3	Chloroform	ND	45.5	mg/kg
74-87-3	Chloromethane	ND	45.5	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	45.5	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	45.5	mg/kg
124-48-1	Dibromochloromethane	ND	45.5	mg/kg
74-95-3	Dibromomethane	ND	45.5	mg/kg
75-71-8	Dichlorodifluoromethane	ND	45.5	mg/kg
100-41-4	Ethylbenzene	ND	45.5	mg/kg
87-68-3	Hexachlorobutadiene	ND	45.5	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	45.5	mg/kg
136777-61-2	m,p-Xylene	ND	91.1	mg/kg
74-88-4	Methyl iodide	ND	45.5	mg/kg
75-09-2	Methylene chloride	ND	91.1	mg/kg
91-20-3	Naphthalene	ND	45.5	mg/kg
104-51-8	n-Butylbenzene	ND	45.5	mg/kg
103-65-1	n-Propylbenzene	ND	45.5	mg/kg
95-47-6	o-Xylene	ND	45.5	mg/kg
135-98-8	sec-Butylbenzene	ND	45.5	mg/kg
100-42-5	Styrene	ND	45.5	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	45.5	mg/kg
98-06-6	tert-Butylbenzene	ND	45.5	mg/kg
108-88-3	Toluene	ND	45.5	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	45.5	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	45.5	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	45.5	mg/kg
79-01-6	**Trichloroethene**	**75.9**	**45.5**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	45.5	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	45.5	mg/kg
75-01-4	Vinyl chloride	ND	45.5	mg/kg

Sample Results

SA-17@20

Collect Date	06/19/2015 13:00	**GCAL ID**	21506220608
Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	06/24/2015 19:42	CLH	561499

CAS#	Parameter	Result	LOQ	Units
1330-20-7	Xylene (total)	ND	137	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	381	403	ug/Kg	106	62 - 127
1868-53-7	Dibromofluoromethane	381	398	ug/Kg	105	65 - 130
2037-26-5	Toluene d8	381	385	ug/Kg	101	71 - 132
17060-07-0	1,2-Dichloroethane-d4	381	377	ug/Kg	99	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100000	06/24/2015 17:13	CLH	561499

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**4790**	**455**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	3810	3930	ug/Kg	103	62 - 127
1868-53-7	Dibromofluoromethane	3810	4140	ug/Kg	109	65 - 130
2037-26-5	Toluene d8	3810	3930	ug/Kg	103	71 - 132
17060-07-0	1,2-Dichloroethane-d4	3810	3950	ug/Kg	104	62 - 125

SA-17@30

Collect Date	06/19/2015 13:00	**GCAL ID**	21506220609
Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	2500	06/24/2015 20:03	CLH	561499

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	15.3	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	15.3	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	15.3	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	15.3	mg/kg
75-34-3	1,1-Dichloroethane	ND	15.3	mg/kg
75-35-4	1,1-Dichloroethene	ND	15.3	mg/kg
563-58-6	1,1-Dichloropropene	ND	15.3	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	15.3	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	15.3	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	15.3	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	15.3	mg/kg
106-93-4	1,2-Dibromoethane	ND	15.3	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	15.3	mg/kg

Sample Results

SA-17@30	**Collect Date**	06/19/2015 13:00	**GCAL ID**	21506220609
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	2500	06/24/2015 20:03	CLH	561499

CAS#	Parameter	Result	LOQ	Units
107-06-2	1,2-Dichloroethane	ND	15.3	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	30.7	mg/kg
78-87-5	1,2-Dichloropropane	ND	15.3	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	15.3	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	15.3	mg/kg
142-28-9	1,3-Dichloropropane	ND	15.3	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	15.3	mg/kg
594-20-7	2,2-Dichloropropane	ND	15.3	mg/kg
78-93-3	2-Butanone	ND	15.3	mg/kg
95-49-8	2-Chlorotoluene	ND	15.3	mg/kg
591-78-6	2-Hexanone	ND	15.3	mg/kg
106-43-4	4-Chlorotoluene	ND	15.3	mg/kg
99-87-6	4-Isopropyltoluene	ND	15.3	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	15.3	mg/kg
67-64-1	Acetone	ND	76.7	mg/kg
71-43-2	Benzene	ND	15.3	mg/kg
108-86-1	Bromobenzene	ND	15.3	mg/kg
74-97-5	Bromochloromethane	ND	15.3	mg/kg
75-27-4	Bromodichloromethane	ND	15.3	mg/kg
75-25-2	Bromoform	ND	15.3	mg/kg
74-83-9	Bromomethane	ND	15.3	mg/kg
75-15-0	Carbon disulfide	ND	15.3	mg/kg
56-23-5	Carbon tetrachloride	ND	15.3	mg/kg
108-90-7	Chlorobenzene	ND	15.3	mg/kg
75-00-3	Chloroethane	ND	15.3	mg/kg
67-66-3	Chloroform	ND	15.3	mg/kg
74-87-3	Chloromethane	ND	15.3	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	15.3	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	15.3	mg/kg
124-48-1	Dibromochloromethane	ND	15.3	mg/kg
74-95-3	Dibromomethane	ND	15.3	mg/kg
75-71-8	Dichlorodifluoromethane	ND	15.3	mg/kg
100-41-4	Ethylbenzene	ND	15.3	mg/kg
87-68-3	Hexachlorobutadiene	ND	15.3	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	15.3	mg/kg
136777-61-2	m,p-Xylene	ND	30.7	mg/kg
74-88-4	Methyl iodide	ND	15.3	mg/kg
75-09-2	Methylene chloride	ND	30.7	mg/kg
91-20-3	Naphthalene	ND	15.3	mg/kg
104-51-8	n-Butylbenzene	ND	15.3	mg/kg
103-65-1	n-Propylbenzene	ND	15.3	mg/kg
95-47-6	o-Xylene	ND	15.3	mg/kg
135-98-8	sec-Butylbenzene	ND	15.3	mg/kg
100-42-5	Styrene	ND	15.3	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	15.3	mg/kg
98-06-6	tert-Butylbenzene	ND	15.3	mg/kg
108-88-3	Toluene	ND	15.3	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	15.3	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	15.3	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	15.3	mg/kg
79-01-6	**Trichloroethene**	**22.8**	**15.3**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	15.3	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	15.3	mg/kg

Sample Results

SA-17@30

Collect Date 06/19/2015 13:00 **GCAL ID** 21506220609
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	2500	06/24/2015 20:03	CLH	561499

CAS#	Parameter	Result	LOQ	Units
75-01-4	Vinyl chloride	ND	15.3	mg/kg
1330-20-7	Xylene (total)	ND	46.0	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	130	138	ug/Kg	106	62 - 127
1868-53-7	Dibromofluoromethane	130	136	ug/Kg	105	65 - 130
2037-26-5	Toluene d8	130	129	ug/Kg	99	71 - 132
17060-07-0	1,2-Dichloroethane-d4	130	129	ug/Kg	99	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	25000	06/24/2015 17:35	CLH	561499

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**2350**	**153**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	1300	1340	ug/Kg	103	62 - 127
1868-53-7	Dibromofluoromethane	1300	1370	ug/Kg	106	65 - 130
2037-26-5	Toluene d8	1300	1350	ug/Kg	104	71 - 132
17060-07-0	1,2-Dichloroethane-d4	1300	1290	ug/Kg	99	62 - 125

SA-18@15

Collect Date 06/19/2015 10:45 **GCAL ID** 21506220610
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/25/2015 00:39	TJB	561577

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	29.1	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	29.1	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	29.1	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	29.1	mg/kg
75-34-3	1,1-Dichloroethane	ND	29.1	mg/kg
75-35-4	1,1-Dichloroethene	ND	29.1	mg/kg
563-58-6	1,1-Dichloropropene	ND	29.1	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	29.1	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	29.1	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	29.1	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	29.1	mg/kg
106-93-4	1,2-Dibromoethane	ND	29.1	mg/kg

Sample Results

SA-18@15	**Collect Date**	06/19/2015 10:45	**GCAL ID**	21506220610
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued)

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/25/2015 00:39	TJB	561577

CAS#	Parameter	Result	LOQ	Units
95-50-1	1,2-Dichlorobenzene	ND	29.1	mg/kg
107-06-2	1,2-Dichloroethane	ND	29.1	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	58.1	mg/kg
78-87-5	1,2-Dichloropropane	ND	29.1	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	29.1	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	29.1	mg/kg
142-28-9	1,3-Dichloropropane	ND	29.1	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	29.1	mg/kg
594-20-7	2,2-Dichloropropane	ND	29.1	mg/kg
78-93-3	2-Butanone	ND	29.1	mg/kg
95-49-8	2-Chlorotoluene	ND	29.1	mg/kg
591-78-6	2-Hexanone	ND	29.1	mg/kg
106-43-4	4-Chlorotoluene	ND	29.1	mg/kg
99-87-6	4-Isopropyltoluene	ND	29.1	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	29.1	mg/kg
67-64-1	Acetone	ND	145	mg/kg
71-43-2	Benzene	ND	29.1	mg/kg
108-86-1	Bromobenzene	ND	29.1	mg/kg
74-97-5	Bromochloromethane	ND	29.1	mg/kg
75-27-4	Bromodichloromethane	ND	29.1	mg/kg
75-25-2	Bromoform	ND	29.1	mg/kg
74-83-9	Bromomethane	ND	29.1	mg/kg
75-15-0	Carbon disulfide	ND	29.1	mg/kg
56-23-5	Carbon tetrachloride	ND	29.1	mg/kg
108-90-7	Chlorobenzene	ND	29.1	mg/kg
75-00-3	Chloroethane	ND	29.1	mg/kg
67-66-3	Chloroform	ND	29.1	mg/kg
74-87-3	Chloromethane	ND	29.1	mg/kg
156-59-2	**cis-1,2-Dichloroethene**	**30.0**	**29.1**	**mg/kg**
10061-01-5	cis-1,3-Dichloropropene	ND	29.1	mg/kg
124-48-1	Dibromochloromethane	ND	29.1	mg/kg
74-95-3	Dibromomethane	ND	29.1	mg/kg
75-71-8	Dichlorodifluoromethane	ND	29.1	mg/kg
100-41-4	Ethylbenzene	ND	29.1	mg/kg
87-68-3	Hexachlorobutadiene	ND	29.1	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	29.1	mg/kg
136777-61-2	m,p-Xylene	ND	58.1	mg/kg
74-88-4	Methyl iodide	ND	29.1	mg/kg
75-09-2	Methylene chloride	ND	58.1	mg/kg
91-20-3	Naphthalene	ND	29.1	mg/kg
104-51-8	n-Butylbenzene	ND	29.1	mg/kg
103-65-1	n-Propylbenzene	ND	29.1	mg/kg
95-47-6	o-Xylene	ND	29.1	mg/kg
135-98-8	sec-Butylbenzene	ND	29.1	mg/kg
100-42-5	Styrene	ND	29.1	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	29.1	mg/kg
98-06-6	tert-Butylbenzene	ND	29.1	mg/kg
108-88-3	Toluene	ND	29.1	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	29.1	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	29.1	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	29.1	mg/kg
79-01-6	**Trichloroethene**	**46.5**	**29.1**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	29.1	mg/kg

Sample Results

SA-18@15

Collect Date 06/19/2015 10:45 **GCAL ID** 21506220610
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/25/2015 00:39	TJB	561577

CAS#	Parameter	Result	LOQ	Units
76-13-1	Trichlorotrifluoroethane	ND	29.1	mg/kg
75-01-4	Vinyl chloride	ND	29.1	mg/kg
1330-20-7	Xylene (total)	ND	87.2	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	240	249	ug/Kg	104	62 - 127
1868-53-7	Dibromofluoromethane	240	253	ug/Kg	105	65 - 130
2037-26-5	Toluene d8	240	242	ug/Kg	101	71 - 132
17060-07-0	1,2-Dichloroethane-d4	240	240	ug/Kg	100	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	50000	06/25/2015 00:18	TJB	561577

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**4230**	**291**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2400	2530	ug/Kg	105	62 - 127
1868-53-7	Dibromofluoromethane	2400	2490	ug/Kg	104	65 - 130
2037-26-5	Toluene d8	2400	2530	ug/Kg	105	71 - 132
17060-07-0	1,2-Dichloroethane-d4	2400	2380	ug/Kg	99	62 - 125

SA-18@30

Collect Date 06/19/2015 10:45 **GCAL ID** 21506220611
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/25/2015 01:43	TJB	561577

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	29.6	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	29.6	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	29.6	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	29.6	mg/kg
75-34-3	1,1-Dichloroethane	ND	29.6	mg/kg
75-35-4	1,1-Dichloroethene	ND	29.6	mg/kg
563-58-6	1,1-Dichloropropene	ND	29.6	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	29.6	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	29.6	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	29.6	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	29.6	mg/kg

Sample Results

SA-18@30	**Collect Date**	06/19/2015 10:45	**GCAL ID**	21506220611
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/25/2015 01:43	TJB	561577

CAS#	Parameter	Result	LOQ	Units
106-93-4	1,2-Dibromoethane	ND	29.6	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	29.6	mg/kg
107-06-2	1,2-Dichloroethane	ND	29.6	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	59.2	mg/kg
78-87-5	1,2-Dichloropropane	ND	29.6	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	29.6	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	29.6	mg/kg
142-28-9	1,3-Dichloropropane	ND	29.6	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	29.6	mg/kg
594-20-7	2,2-Dichloropropane	ND	29.6	mg/kg
78-93-3	2-Butanone	ND	29.6	mg/kg
95-49-8	2-Chlorotoluene	ND	29.6	mg/kg
591-78-6	2-Hexanone	ND	29.6	mg/kg
106-43-4	4-Chlorotoluene	ND	29.6	mg/kg
99-87-6	4-Isopropyltoluene	ND	29.6	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	29.6	mg/kg
67-64-1	Acetone	ND	148	mg/kg
71-43-2	Benzene	ND	29.6	mg/kg
108-86-1	Bromobenzene	ND	29.6	mg/kg
74-97-5	Bromochloromethane	ND	29.6	mg/kg
75-27-4	Bromodichloromethane	ND	29.6	mg/kg
75-25-2	Bromoform	ND	29.6	mg/kg
74-83-9	Bromomethane	ND	29.6	mg/kg
75-15-0	Carbon disulfide	ND	29.6	mg/kg
56-23-5	Carbon tetrachloride	ND	29.6	mg/kg
108-90-7	Chlorobenzene	ND	29.6	mg/kg
75-00-3	Chloroethane	ND	29.6	mg/kg
67-66-3	Chloroform	ND	29.6	mg/kg
74-87-3	Chloromethane	ND	29.6	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	29.6	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	29.6	mg/kg
124-48-1	Dibromochloromethane	ND	29.6	mg/kg
74-95-3	Dibromomethane	ND	29.6	mg/kg
75-71-8	Dichlorodifluoromethane	ND	29.6	mg/kg
100-41-4	Ethylbenzene	ND	29.6	mg/kg
87-68-3	Hexachlorobutadiene	ND	29.6	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	29.6	mg/kg
136777-61-2	m,p-Xylene	ND	59.2	mg/kg
74-88-4	Methyl iodide	ND	29.6	mg/kg
75-09-2	Methylene chloride	ND	59.2	mg/kg
91-20-3	Naphthalene	ND	29.6	mg/kg
104-51-8	n-Butylbenzene	ND	29.6	mg/kg
103-65-1	n-Propylbenzene	ND	29.6	mg/kg
95-47-6	o-Xylene	ND	29.6	mg/kg
135-98-8	sec-Butylbenzene	ND	29.6	mg/kg
100-42-5	Styrene	ND	29.6	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	29.6	mg/kg
98-06-6	tert-Butylbenzene	ND	29.6	mg/kg
108-88-3	Toluene	ND	29.6	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	29.6	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	29.6	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	29.6	mg/kg
79-01-6	Trichloroethene	ND	29.6	mg/kg

Sample Results

SA-18@30

Collect Date	06/19/2015 10:45	**GCAL ID**	21506220611
Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	5000	06/25/2015 01:43	TJB	561577

CAS#	Parameter	Result	LOQ	Units
75-69-4	Trichlorofluoromethane	ND	29.6	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	29.6	mg/kg
75-01-4	Vinyl chloride	ND	29.6	mg/kg
1330-20-7	Xylene (total)	ND	88.7	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	245	259	ug/Kg	106	62 - 127
1868-53-7	Dibromofluoromethane	245	259	ug/Kg	106	65 - 130
2037-26-5	Toluene d8	245	250	ug/Kg	102	71 - 132
17060-07-0	1,2-Dichloroethane-d4	245	241	ug/Kg	99	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	50000	06/25/2015 01:21	TJB	561577

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**2350**	**296**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	2450	2620	ug/Kg	107	62 - 127
1868-53-7	Dibromofluoromethane	2450	2560	ug/Kg	105	65 - 130
2037-26-5	Toluene d8	2450	2600	ug/Kg	106	71 - 132
17060-07-0	1,2-Dichloroethane-d4	2450	2460	ug/Kg	101	62 - 125

SA-19@10

Collect Date	06/19/2015 09:28	**GCAL ID**	21506220612
Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	06/25/2015 02:46	TJB	561577

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	50.1	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	50.1	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	50.1	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	50.1	mg/kg
75-34-3	1,1-Dichloroethane	ND	50.1	mg/kg
75-35-4	1,1-Dichloroethene	ND	50.1	mg/kg
563-58-6	1,1-Dichloropropene	ND	50.1	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	50.1	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	50.1	mg/kg
95-63-6	1,2,4-Trimethylbenzene	ND	50.1	mg/kg

Sample Results

SA-19@10

Collect Date	06/19/2015 09:28	**GCAL ID**	21506220612
Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued)

*Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	06/25/2015 02:46	TJB	561577

CAS#	Parameter	Result	LOQ	Units
96-12-8	1,2-Dibromo-3-chloropropane	ND	50.1	mg/kg
106-93-4	1,2-Dibromoethane	ND	50.1	mg/kg
95-50-1	**1,2-Dichlorobenzene**	**159**	**50.1**	**mg/kg**
107-06-2	1,2-Dichloroethane	ND	50.1	mg/kg
540-59-0	**1,2-Dichloroethene(Total)**	**127**	**100**	**mg/kg**
78-87-5	1,2-Dichloropropane	ND	50.1	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	50.1	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	50.1	mg/kg
142-28-9	1,3-Dichloropropane	ND	50.1	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	50.1	mg/kg
594-20-7	2,2-Dichloropropane	ND	50.1	mg/kg
78-93-3	2-Butanone	ND	50.1	mg/kg
95-49-8	2-Chlorotoluene	ND	50.1	mg/kg
591-78-6	2-Hexanone	ND	50.1	mg/kg
106-43-4	4-Chlorotoluene	ND	50.1	mg/kg
99-87-6	4-Isopropyltoluene	ND	50.1	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	50.1	mg/kg
67-64-1	Acetone	ND	250	mg/kg
71-43-2	Benzene	ND	50.1	mg/kg
108-86-1	Bromobenzene	ND	50.1	mg/kg
74-97-5	Bromochloromethane	ND	50.1	mg/kg
75-27-4	Bromodichloromethane	ND	50.1	mg/kg
75-25-2	Bromoform	ND	50.1	mg/kg
74-83-9	Bromomethane	ND	50.1	mg/kg
75-15-0	Carbon disulfide	ND	50.1	mg/kg
56-23-5	Carbon tetrachloride	ND	50.1	mg/kg
108-90-7	Chlorobenzene	ND	50.1	mg/kg
75-00-3	Chloroethane	ND	50.1	mg/kg
67-66-3	Chloroform	ND	50.1	mg/kg
74-87-3	Chloromethane	ND	50.1	mg/kg
156-59-2	**cis-1,2-Dichloroethene**	**127**	**50.1**	**mg/kg**
10061-01-5	cis-1,3-Dichloropropene	ND	50.1	mg/kg
124-48-1	Dibromochloromethane	ND	50.1	mg/kg
74-95-3	Dibromomethane	ND	50.1	mg/kg
75-71-8	Dichlorodifluoromethane	ND	50.1	mg/kg
100-41-4	Ethylbenzene	ND	50.1	mg/kg
87-68-3	Hexachlorobutadiene	ND	50.1	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	50.1	mg/kg
136777-61-2	m,p-Xylene	ND	100	mg/kg
74-88-4	Methyl iodide	ND	50.1	mg/kg
75-09-2	Methylene chloride	ND	100	mg/kg
91-20-3	Naphthalene	ND	50.1	mg/kg
104-51-8	n-Butylbenzene	ND	50.1	mg/kg
103-65-1	n-Propylbenzene	ND	50.1	mg/kg
95-47-6	o-Xylene	ND	50.1	mg/kg
135-98-8	sec-Butylbenzene	ND	50.1	mg/kg
100-42-5	Styrene	ND	50.1	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	50.1	mg/kg
98-06-6	tert-Butylbenzene	ND	50.1	mg/kg
108-88-3	Toluene	ND	50.1	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	50.1	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	50.1	mg/kg
110-57-6	trans-1,4-Dichloro-2-butene	ND	50.1	mg/kg

Sample Results

SA-19@10

Collect Date 06/19/2015 09:28 **GCAL ID** 21506220612
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	10000	06/25/2015 02:46	TJB	561577

CAS#	Parameter	Result	LOQ	Units
79-01-6	**Trichloroethene**	**374**	**50.1**	**mg/kg**
75-69-4	Trichlorofluoromethane	ND	50.1	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	50.1	mg/kg
75-01-4	Vinyl chloride	ND	50.1	mg/kg
1330-20-7	Xylene (total)	ND	150	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	419	463	ug/Kg	110	62 - 127
1868-53-7	Dibromofluoromethane	419	435	ug/Kg	104	65 - 130
2037-26-5	Toluene d8	419	426	ug/Kg	102	71 - 132
17060-07-0	1,2-Dichloroethane-d4	419	406	ug/Kg	97	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100000	06/25/2015 02:25	TJB	561577

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**5230**	**501**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	4190	4490	ug/Kg	107	62 - 127
1868-53-7	Dibromofluoromethane	4190	4320	ug/Kg	103	65 - 130
2037-26-5	Toluene d8	4190	4370	ug/Kg	104	71 - 132
17060-07-0	1,2-Dichloroethane-d4	4190	4060	ug/Kg	97	62 - 125

SA-19@30

Collect Date 06/19/2015 09:28 **GCAL ID** 21506220613
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100000	06/25/2015 03:49	TJB	561577

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	534	mg/kg
71-55-6	1,1,1-Trichloroethane	ND	534	mg/kg
79-34-5	1,1,2,2-Tetrachloroethane	ND	534	mg/kg
79-00-5	1,1,2-Trichloroethane	ND	534	mg/kg
75-34-3	1,1-Dichloroethane	ND	534	mg/kg
75-35-4	1,1-Dichloroethene	ND	534	mg/kg
563-58-6	1,1-Dichloropropene	ND	534	mg/kg
96-18-4	1,2,3-Trichloropropane	ND	534	mg/kg
120-82-1	1,2,4-Trichlorobenzene	ND	534	mg/kg

Sample Results

SA-19@30	**Collect Date**	06/19/2015 09:28	**GCAL ID**	21506220613
	Receive Date	06/20/2015 10:20	**Matrix**	Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100000	06/25/2015 03:49	TJB	561577

CAS#	Parameter	Result	LOQ	Units
95-63-6	1,2,4-Trimethylbenzene	ND	534	mg/kg
96-12-8	1,2-Dibromo-3-chloropropane	ND	534	mg/kg
106-93-4	1,2-Dibromoethane	ND	534	mg/kg
95-50-1	1,2-Dichlorobenzene	ND	534	mg/kg
107-06-2	1,2-Dichloroethane	ND	534	mg/kg
540-59-0	1,2-Dichloroethene(Total)	ND	1070	mg/kg
78-87-5	1,2-Dichloropropane	ND	534	mg/kg
108-67-8	1,3,5-Trimethylbenzene	ND	534	mg/kg
541-73-1	1,3-Dichlorobenzene	ND	534	mg/kg
142-28-9	1,3-Dichloropropane	ND	534	mg/kg
106-46-7	1,4-Dichlorobenzene	ND	534	mg/kg
594-20-7	2,2-Dichloropropane	ND	534	mg/kg
78-93-3	2-Butanone	ND	534	mg/kg
95-49-8	2-Chlorotoluene	ND	534	mg/kg
591-78-6	2-Hexanone	ND	534	mg/kg
106-43-4	4-Chlorotoluene	ND	534	mg/kg
99-87-6	4-Isopropyltoluene	ND	534	mg/kg
108-10-1	4-Methyl-2-pentanone	ND	534	mg/kg
67-64-1	Acetone	ND	2670	mg/kg
71-43-2	Benzene	ND	534	mg/kg
108-86-1	Bromobenzene	ND	534	mg/kg
74-97-5	Bromochloromethane	ND	534	mg/kg
75-27-4	Bromodichloromethane	ND	534	mg/kg
75-25-2	Bromoform	ND	534	mg/kg
74-83-9	Bromomethane	ND	534	mg/kg
75-15-0	Carbon disulfide	ND	534	mg/kg
56-23-5	Carbon tetrachloride	ND	534	mg/kg
108-90-7	Chlorobenzene	ND	534	mg/kg
75-00-3	Chloroethane	ND	534	mg/kg
67-66-3	Chloroform	ND	534	mg/kg
74-87-3	Chloromethane	ND	534	mg/kg
156-59-2	cis-1,2-Dichloroethene	ND	534	mg/kg
10061-01-5	cis-1,3-Dichloropropene	ND	534	mg/kg
124-48-1	Dibromochloromethane	ND	534	mg/kg
74-95-3	Dibromomethane	ND	534	mg/kg
75-71-8	Dichlorodifluoromethane	ND	534	mg/kg
100-41-4	Ethylbenzene	ND	534	mg/kg
87-68-3	Hexachlorobutadiene	ND	534	mg/kg
98-82-8	Isopropylbenzene (Cumene)	ND	534	mg/kg
136777-61-2	m,p-Xylene	ND	1070	mg/kg
74-88-4	Methyl iodide	ND	534	mg/kg
75-09-2	Methylene chloride	ND	1070	mg/kg
91-20-3	Naphthalene	ND	534	mg/kg
104-51-8	n-Butylbenzene	ND	534	mg/kg
103-65-1	n-Propylbenzene	ND	534	mg/kg
95-47-6	o-Xylene	ND	534	mg/kg
135-98-8	sec-Butylbenzene	ND	534	mg/kg
100-42-5	Styrene	ND	534	mg/kg
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	534	mg/kg
98-06-6	tert-Butylbenzene	ND	534	mg/kg
108-88-3	Toluene	ND	534	mg/kg
156-60-5	trans-1,2-Dichloroethene	ND	534	mg/kg
10061-02-6	trans-1,3-Dichloropropene	ND	534	mg/kg

Sample Results

SA-19@30

Collect Date 06/19/2015 09:28 **GCAL ID** 21506220613
Receive Date 06/20/2015 10:20 **Matrix** Solid

EPA 8260B (Continued) *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	100000	06/25/2015 03:49	TJB	561577

CAS#	Parameter	Result	LOQ	Units
110-57-6	trans-1,4-Dichloro-2-butene	ND	534	mg/kg
79-01-6	Trichloroethene	ND	534	mg/kg
75-69-4	Trichlorofluoromethane	ND	534	mg/kg
76-13-1	Trichlorotrifluoroethane	ND	534	mg/kg
75-01-4	Vinyl chloride	ND	534	mg/kg
1330-20-7	Xylene (total)	ND	1600	mg/kg

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	4600	4770	ug/Kg	104	62 - 127
1868-53-7	Dibromofluoromethane	4600	4840	ug/Kg	105	65 - 130
2037-26-5	Toluene d8	4600	4560	ug/Kg	99	71 - 132
17060-07-0	1,2-Dichloroethane-d4	4600	4560	ug/Kg	99	62 - 125

EPA 8260B *Results Reported on Dry Weight Basis

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1000000	06/25/2015 03:28	TJB	561577

CAS#	Parameter	Result	LOQ	Units
127-18-4	**Tetrachloroethene**	**35500**	**5340**	**mg/kg**

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	46000	47900	ug/Kg	104	62 - 127
1868-53-7	Dibromofluoromethane	46000	49600	ug/Kg	108	65 - 130
2037-26-5	Toluene d8	46000	48800	ug/Kg	106	71 - 132
17060-07-0	1,2-Dichloroethane-d4	46000	44900	ug/Kg	98	62 - 125

TRIP BLANK

Collect Date 06/19/2015 00:00 **GCAL ID** 21506220614
Receive Date 06/20/2015 10:20 **Matrix** Water

EPA 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	06/23/2015 16:26	CJR	561397

CAS#	Parameter	Result	LOQ	Units
630-20-6	1,1,1,2-Tetrachloroethane	ND	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	ND	5.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.00	ug/L
79-00-5	1,1,2-Trichloroethane	ND	5.00	ug/L
75-34-3	1,1-Dichloroethane	ND	5.00	ug/L
75-35-4	1,1-Dichloroethene	ND	5.00	ug/L
563-58-6	1,1-Dichloropropene	ND	5.00	ug/L
96-18-4	1,2,3-Trichloropropane	ND	5.00	ug/L

Sample Results

TRIP BLANK

Collect Date	06/19/2015 00:00	**GCAL ID**	21506220614
Receive Date	06/20/2015 10:20	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	06/23/2015 16:26	CJR	561397

CAS#	Parameter	Result	LOQ	Units
120-82-1	1,2,4-Trichlorobenzene	ND	5.00	ug/L
95-63-6	1,2,4-Trimethylbenzene	ND	5.00	ug/L
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.00	ug/L
106-93-4	1,2-Dibromoethane	ND	5.00	ug/L
95-50-1	1,2-Dichlorobenzene	ND	5.00	ug/L
107-06-2	1,2-Dichloroethane	ND	5.00	ug/L
540-59-0	1,2-Dichloroethene(Total)	ND	10.0	ug/L
78-87-5	1,2-Dichloropropane	ND	5.00	ug/L
108-67-8	1,3,5-Trimethylbenzene	ND	5.00	ug/L
541-73-1	1,3-Dichlorobenzene	ND	5.00	ug/L
142-28-9	1,3-Dichloropropane	ND	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	ND	5.00	ug/L
594-20-7	2,2-Dichloropropane	ND	5.00	ug/L
78-93-3	2-Butanone	ND	5.00	ug/L
95-49-8	2-Chlorotoluene	ND	5.00	ug/L
591-78-6	2-Hexanone	ND	5.00	ug/L
106-43-4	4-Chlorotoluene	ND	5.00	ug/L
99-87-6	4-Isopropyltoluene	ND	5.00	ug/L
108-10-1	4-Methyl-2-pentanone	ND	5.00	ug/L
67-64-1	Acetone	ND	5.00	ug/L
71-43-2	Benzene	ND	5.00	ug/L
108-86-1	Bromobenzene	ND	5.00	ug/L
74-97-5	Bromochloromethane	ND	5.00	ug/L
75-27-4	Bromodichloromethane	ND	5.00	ug/L
75-25-2	Bromoform	ND	5.00	ug/L
74-83-9	Bromomethane	ND	5.00	ug/L
75-15-0	Carbon disulfide	ND	5.00	ug/L
56-23-5	Carbon tetrachloride	ND	5.00	ug/L
108-90-7	Chlorobenzene	ND	5.00	ug/L
75-00-3	Chloroethane	ND	5.00	ug/L
67-66-3	Chloroform	ND	5.00	ug/L
74-87-3	Chloromethane	ND	5.00	ug/L
156-59-2	cis-1,2-Dichloroethene	ND	5.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	ND	5.00	ug/L
124-48-1	Dibromochloromethane	ND	5.00	ug/L
74-95-3	Dibromomethane	ND	5.00	ug/L
75-71-8	Dichlorodifluoromethane	ND	5.00	ug/L
100-41-4	Ethylbenzene	ND	5.00	ug/L
87-68-3	Hexachlorobutadiene	ND	5.00	ug/L
98-82-8	Isopropylbenzene (Cumene)	ND	5.00	ug/L
136777-61-2	m,p-Xylene	ND	10.0	ug/L
74-88-4	Methyl iodide	ND	5.00	ug/L
75-09-2	Methylene chloride	ND	5.00	ug/L
91-20-3	Naphthalene	ND	5.00	ug/L
104-51-8	n-Butylbenzene	ND	5.00	ug/L
103-65-1	n-Propylbenzene	ND	5.00	ug/L
95-47-6	o-Xylene	ND	5.00	ug/L
135-98-8	sec-Butylbenzene	ND	5.00	ug/L
100-42-5	Styrene	ND	5.00	ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	5.00	ug/L
98-06-6	tert-Butylbenzene	ND	5.00	ug/L
127-18-4	Tetrachloroethene	ND	5.00	ug/L
108-88-3	Toluene	ND	5.00	ug/L

Sample Results

TRIP BLANK

Collect Date	06/19/2015 00:00	**GCAL ID**	21506220614
Receive Date	06/20/2015 10:20	**Matrix**	Water

EPA 8260B (Continued)

Prep Date	Prep Batch	Prep Method	Dilution	Analysis Date	By	Analytical Batch
NA	NA	NA	1	06/23/2015 16:26	CJR	561397

CAS#	Parameter	Result	LOQ	Units
156-60-5	trans-1,2-Dichloroethene	ND	5.00	ug/L
10061-02-6	trans-1,3-Dichloropropene	ND	5.00	ug/L
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.00	ug/L
79-01-6	Trichloroethene	ND	5.00	ug/L
75-69-4	Trichlorofluoromethane	ND	5.00	ug/L
76-13-1	Trichlorotrifluoroethane	ND	5.00	ug/L
75-01-4	Vinyl chloride	ND	5.00	ug/L
1330-20-7	Xylene (total)	ND	15.0	ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	50.5	ug/L	101	78 - 130
1868-53-7	Dibromofluoromethane	50	52.9	ug/L	106	77 - 127
2037-26-5	Toluene d8	50	51.3	ug/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	52.9	ug/L	106	71 - 127

GC/MS Volatiles QC Summary

Analytical Batch 561428	Client ID	MB561428		LCS561428				LCSD561428				
	GCAL ID	1459277		1459278				1459279				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	06/23/2015 15:35		06/23/2015 13:16				06/23/2015 13:44				
	Matrix	Solid		Solid				Solid				
EPA 8260B		Units Result	mg/kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	0.250	2.50	2.49	100	77 - 122	2.50	2.53	101	2	30
1,1,1-Trichloroethane	71-55-6	ND	0.250	2.50	2.43	97	70 - 130	2.50	2.50	100	3	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.250	2.50	2.01	80	66 - 129	2.50	2.17	87	8	30
1,1,2-Trichloroethane	79-00-5	ND	0.250	2.50	2.26	90	74 - 120	2.50	2.42	97	7	30
1,1-Dichloroethane	75-34-3	ND	0.250	2.50	2.25	90	71 - 126	2.50	2.35	94	4	30
1,1-Dichloroethene	75-35-4	ND	0.250	2.50	2.41	96	68 - 129	2.50	2.60	104	8	20
1,1-Dichloropropene	563-58-6	ND	0.250	2.50	2.08	83	70 - 138	2.50	2.17	87	4	30
1,2,3-Trichloropropane	96-18-4	ND	0.250	2.50	2.10	84	63 - 132	2.50	2.16	86	3	30
1,2,4-Trichlorobenzene	120-82-1	ND	0.250	2.50	2.55	102	64 - 135	2.50	2.58	103	1	30
1,2,4-Trimethylbenzene	95-63-6	ND	0.250	2.50	2.29	92	75 - 130	2.50	2.35	94	3	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	0.250	2.50	2.35	94	60 - 123	2.50	2.57	103	9	30
1,2-Dibromoethane	106-93-4	ND	0.250	2.50	2.37	95	74 - 122	2.50	2.53	101	7	30
1,2-Dichlorobenzene	95-50-1	ND	0.250	2.50	2.42	97	76 - 125	2.50	2.45	98	1	30
1,2-Dichloroethane	107-06-2	ND	0.250	2.50	2.30	92	68 - 126	2.50	2.41	96	5	30
1,2-Dichloroethene(Total)	540-59-0	ND	0.500	5.00	4.72	94	72 - 129	5.00	4.90	98	4	30
1,2-Dichloropropane	78-87-5	ND	0.250	2.50	2.28	91	72 - 129	2.50	2.40	96	5	30
1,3,5-Trimethylbenzene	108-67-8	ND	0.250	2.50	2.49	100	74 - 136	2.50	2.57	103	3	30
1,3-Dichlorobenzene	541-73-1	ND	0.250	2.50	2.42	97	77 - 127	2.50	2.44	98	1	30
1,3-Dichloropropane	142-28-9	ND	0.250	2.50	2.34	94	77 - 121	2.50	2.48	99	6	30
1,4-Dichlorobenzene	106-46-7	ND	0.250	2.50	2.38	95	74 - 123	2.50	2.40	96	1	30
2,2-Dichloropropane	594-20-7	ND	0.250	2.50	2.46	98	74 - 129	2.50	2.53	101	3	30
2-Butanone	78-93-3	ND	0.250	2.50	2.04	82	47 - 142	2.50	2.22	89	8	30
2-Chlorotoluene	95-49-8	ND	0.250	2.50	2.26	90	75 - 132	2.50	2.35	94	4	30
2-Hexanone	591-78-6	ND	0.250	2.50	1.99	80	47 - 137	2.50	2.21	88	10	30
4-Chlorotoluene	106-43-4	ND	0.250	2.50	2.32	93	74 - 133	2.50	2.36	94	2	30
4-Isopropyltoluene	99-87-6	ND	0.250	2.50	2.42	97	71 - 136	2.50	2.44	98	1	30
4-Methyl-2-pentanone	108-10-1	ND	0.250	2.50	2.22	89	52 - 136	2.50	2.49	100	11	30
Acetone	67-64-1	ND	1.25	2.50	1.90	76	38 - 152	2.50	2.03	81	7	30
Benzene	71-43-2	ND	0.250	2.50	2.33	93	73 - 128	2.50	2.45	98	5	20
Bromobenzene	108-86-1	ND	0.250	2.50	2.03	81	73 - 124	2.50	2.13	85	5	30
Bromochloromethane	74-97-5	ND	0.250	2.50	2.47	99	73 - 127	2.50	2.45	98	1	30
Bromodichloromethane	75-27-4	ND	0.250	2.50	2.46	98	74 - 126	2.50	2.48	99	1	30
Bromoform	75-25-2	ND	0.250	2.50	2.58	103	67 - 122	2.50	2.73	109	6	30
Bromomethane	74-83-9	ND	0.250	2.50	1.64	66	48 - 139	2.50	2.16	86	27	30
Carbon disulfide	75-15-0	ND	0.250	2.50	2.45	98	68 - 133	2.50	2.54	102	4	30
Carbon tetrachloride	56-23-5	ND	0.250	2.50	2.54	102	71 - 133	2.50	2.56	102	1	30
Chlorobenzene	108-90-7	ND	0.250	2.50	2.41	96	75 - 121	2.50	2.46	98	2	20
Chloroethane	75-00-3	ND	0.250	2.50	2.36	94	57 - 144	2.50	2.59	104	9	30
Chloroform	67-66-3	ND	0.250	2.50	2.40	96	74 - 124	2.50	2.46	98	2	30
Chloromethane	74-87-3	ND	0.250	2.50	2.14	86	61 - 130	2.50	2.45	98	14	30
cis-1,2-Dichloroethene	156-59-2	ND	0.250	2.50	2.33	93	72 - 130	2.50	2.46	98	5	30
cis-1,3-Dichloropropene	10061-01-5	ND	0.250	2.50	2.26	90	72 - 129	2.50	2.31	92	2	30
Dibromochloromethane	124-48-1	ND	0.250	2.50	2.49	100	74 - 122	2.50	2.60	104	4	30
Dibromomethane	74-95-3	ND	0.250	2.50	2.40	96	72 - 125	2.50	2.49	100	4	30
Dichlorodifluoromethane	75-71-8	ND	0.250	2.50	2.39	96	59 - 138	2.50	2.54	102	6	30
Ethylbenzene	100-41-4	ND	0.250	2.50	2.47	99	74 - 130	2.50	2.52	101	2	30
Hexachlorobutadiene	87-68-3	ND	0.250	2.50	2.59	104	71 - 140	2.50	2.62	105	1	30
Isopropylbenzene (Cumene)	98-82-8	ND	0.250	2.50	2.42	97	74 - 125	2.50	2.45	98	1	30
m,p-Xylene	136777-61-2	ND	0.500	5.00	4.71	94	72 - 128	5.00	4.78	96	1	30
Methyl iodide	74-88-4	ND	0.250	2.50	1.78	71	54 - 140	2.50	2.11	84	17	30
Methylene chloride	75-09-2	ND	0.500	2.50	2.25	90	66 - 130	2.50	2.34	94	4	30
Naphthalene	91-20-3	ND	0.250	2.50	2.40	96	54 - 132	2.50	2.57	103	7	35
n-Butylbenzene	104-51-8	ND	0.250	2.50	2.44	98	68 - 144	2.50	2.45	98	0	30
n-Propylbenzene	103-65-1	ND	0.250	2.50	2.29	92	73 - 137	2.50	2.35	94	3	30
o-Xylene	95-47-6	ND	0.250	2.50	2.32	93	69 - 133	2.50	2.38	95	3	30
sec-Butylbenzene	135-98-8	ND	0.250	2.50	2.31	92	72 - 141	2.50	2.34	94	1	30
Styrene	100-42-5	ND	0.250	2.50	2.37	95	72 - 128	2.50	2.41	96	2	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	0.250	2.50	2.14	86	69 - 126	2.50	2.38	95	11	30

GC/MS Volatiles QC Summary

Analytical Batch 561428	Client ID	MB561428	LCS561428	LCSD561428
	GCAL ID	1459277	1459278	1459279
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	06/23/2015 15:35	06/23/2015 13:16	06/23/2015 13:44
	Matrix	Solid	Solid	Solid

EPA 8260B		Units Result	mg/kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
tert-Butylbenzene	98-06-6	ND	0.250	2.50	2.48	99	72 - 136	2.50	2.56	102	3	30
Tetrachloroethene	127-18-4	ND	0.250	2.50	2.48	99	70 - 127	2.50	2.49	100	0	30
Toluene	108-88-3	ND	0.250	2.50	2.33	93	74 - 121	2.50	2.39	96	3	20
trans-1,2-Dichloroethene	156-60-5	ND	0.250	2.50	2.39	96	67 - 134	2.50	2.43	97	2	30
trans-1,3-Dichloropropene	10061-02-6	ND	0.250	2.50	2.23	89	72 - 126	2.50	2.30	92	3	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	0.250	2.50	2.27	91	44 - 146	2.50	2.41	96	6	30
Trichloroethene	79-01-6	ND	0.250	2.50	2.50	100	78 - 127	2.50	2.51	100	0	20
Trichlorofluoromethane	75-69-4	ND	0.250	2.50	2.53	101	64 - 141	2.50	2.59	104	2	30
Trichlorotrifluoroethane	76-13-1	ND	0.250	2.50	2.60	104	66 - 139	2.50	2.66	106	2	30
Vinyl chloride	75-01-4	ND	0.250	2.50	2.22	89	67 - 131	2.50	2.58	103	15	30
Xylene (total)	1330-20-7	ND	0.750	7.50	7.03	94	71 - 129	7.50	7.16	95	2	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	2.6	104	2.5	2.47	99	62 - 125	2.5	2.49	100	1	NA
4-Bromofluorobenzene	460-00-4	2.53	101	2.5	2.73	109	62 - 127	2.5	2.72	109	0	NA
Dibromofluoromethane	1868-53-7	2.48	99	2.5	2.54	102	65 - 130	2.5	2.53	101	0	NA
Toluene d8	2037-26-5	2.68	107	2.5	2.46	98	71 - 132	2.5	2.5	100	2	NA

Analytical Batch 561499	Client ID	MB561499	LCS561499	LCSD561499
	GCAL ID	1459556	1459557	1459558
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	06/24/2015 11:59	06/24/2015 08:58	06/24/2015 09:19
	Matrix	Solid	Solid	Solid

EPA 8260B		Units Result	mg/kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	0.250	2.50	2.66	106	77 - 122	2.50	2.72	109	2	30
1,1,1-Trichloroethane	71-55-6	ND	0.250	2.50	2.58	103	70 - 130	2.50	2.64	106	2	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.250	2.50	2.17	87	66 - 129	2.50	2.28	91	5	30
1,1,2-Trichloroethane	79-00-5	ND	0.250	2.50	2.50	100	74 - 120	2.50	2.59	104	4	30
1,1-Dichloroethane	75-34-3	ND	0.250	2.50	2.40	96	71 - 126	2.50	2.51	100	4	30
1,1-Dichloroethene	75-35-4	ND	0.250	2.50	2.64	106	68 - 129	2.50	2.86	114	8	20
1,1-Dichloropropene	563-58-6	ND	0.250	2.50	2.20	88	70 - 138	2.50	2.22	89	1	30
1,2,3-Trichloropropane	96-18-4	ND	0.250	2.50	2.22	89	63 - 132	2.50	2.47	99	11	30
1,2,4-Trichlorobenzene	120-82-1	ND	0.250	2.50	2.65	106	64 - 135	2.50	2.66	106	0	30
1,2,4-Trimethylbenzene	95-63-6	ND	0.250	2.50	2.41	96	75 - 130	2.50	2.44	98	1	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	0.250	2.50	2.70	108	60 - 123	2.50	2.97	119	10	30
1,2-Dibromoethane	106-93-4	ND	0.250	2.50	2.63	105	74 - 122	2.50	2.73	109	4	30
1,2-Dichlorobenzene	95-50-1	ND	0.250	2.50	2.62	105	76 - 125	2.50	2.67	107	2	30
1,2-Dichloroethane	107-06-2	ND	0.250	2.50	2.52	101	68 - 126	2.50	2.60	104	3	30
1,2-Dichloroethene(Total)	540-59-0	ND	0.500	5.00	5.08	102	72 - 129	5.00	5.23	105	3	30
1,2-Dichloropropane	78-87-5	ND	0.250	2.50	2.47	99	72 - 129	2.50	2.52	101	2	30
1,3,5-Trimethylbenzene	108-67-8	ND	0.250	2.50	2.60	104	74 - 136	2.50	2.62	105	1	30
1,3-Dichlorobenzene	541-73-1	ND	0.250	2.50	2.59	104	77 - 127	2.50	2.65	106	2	30
1,3-Dichloropropane	142-28-9	ND	0.250	2.50	2.51	100	77 - 121	2.50	2.61	104	4	30
1,4-Dichlorobenzene	106-46-7	ND	0.250	2.50	2.55	102	74 - 123	2.50	2.57	103	1	30
2,2-Dichloropropane	594-20-7	ND	0.250	2.50	2.63	105	74 - 129	2.50	2.66	106	1	30
2-Butanone	78-93-3	ND	0.250	2.50	2.38	95	47 - 142	2.50	2.59	104	8	30
2-Chlorotoluene	95-49-8	ND	0.250	2.50	2.35	94	75 - 132	2.50	2.42	97	3	30
2-Hexanone	591-78-6	ND	0.250	2.50	2.22	89	47 - 137	2.50	2.43	97	9	30
4-Chlorotoluene	106-43-4	ND	0.250	2.50	2.44	98	74 - 133	2.50	2.48	99	2	30
4-Isopropyltoluene	99-87-6	ND	0.250	2.50	2.51	100	71 - 136	2.50	2.51	100	0	30
4-Methyl-2-pentanone	108-10-1	ND	0.250	2.50	2.48	99	52 - 136	2.50	2.73	109	10	30
Acetone	67-64-1	ND	1.25	2.50	2.23	89	38 - 152	2.50	2.39	96	7	30
Benzene	71-43-2	ND	0.250	2.50	2.56	102	73 - 128	2.50	2.57	103	0	20
Bromobenzene	108-86-1	ND	0.250	2.50	2.12	85	73 - 124	2.50	2.19	88	3	30
Bromochloromethane	74-97-5	ND	0.250	2.50	2.78	111	73 - 127	2.50	2.81	112	1	30
Bromodichloromethane	75-27-4	ND	0.250	2.50	2.63	105	74 - 126	2.50	2.67	107	2	30

GC/MS Volatiles QC Summary

Analytical Batch	Client ID	MB561499		LCS561499				LCSD561499				
561499	GCAL ID	1459556		1459557				1459558				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	06/24/2015 11:59		06/24/2015 08:58				06/24/2015 09:19				
	Matrix	Solid		Solid				Solid				
EPA 8260B		Units Result	mg/kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Bromoform	75-25-2	ND	0.250	2.50	2.88	115	67 - 122	2.50	3.01	120	4	30
Bromomethane	74-83-9	ND	0.250	2.50	2.61	104	48 - 139	2.50	3.12	125	18	30
Carbon disulfide	75-15-0	ND	0.250	2.50	2.64	106	68 - 133	2.50	2.76	110	4	30
Carbon tetrachloride	56-23-5	ND	0.250	2.50	2.69	108	71 - 133	2.50	2.73	109	1	30
Chlorobenzene	108-90-7	ND	0.250	2.50	2.63	105	75 - 121	2.50	2.64	106	0	20
Chloroethane	75-00-3	ND	0.250	2.50	2.47	99	57 - 144	2.50	2.70	108	9	30
Chloroform	67-66-3	ND	0.250	2.50	2.63	105	74 - 124	2.50	2.66	106	1	30
Chloromethane	74-87-3	ND	0.250	2.50	2.42	97	61 - 130	2.50	2.75	110	13	30
cis-1,2-Dichloroethene	156-59-2	ND	0.250	2.50	2.49	100	72 - 130	2.50	2.58	103	4	30
cis-1,3-Dichloropropene	10061-01-5	ND	0.250	2.50	2.43	97	72 - 129	2.50	2.48	99	2	30
Dibromochloromethane	124-48-1	ND	0.250	2.50	2.72	109	74 - 122	2.50	2.80	112	3	30
Dibromomethane	74-95-3	ND	0.250	2.50	2.59	104	72 - 125	2.50	2.72	109	5	30
Dichlorodifluoromethane	75-71-8	ND	0.250	2.50	2.61	104	59 - 138	2.50	2.71	108	4	30
Ethylbenzene	100-41-4	ND	0.250	2.50	2.68	107	74 - 130	2.50	2.69	108	0	30
Hexachlorobutadiene	87-68-3	ND	0.250	2.50	2.66	106	71 - 140	2.50	2.69	108	1	30
Isopropylbenzene (Cumene)	98-82-8	ND	0.250	2.50	2.56	102	74 - 125	2.50	2.54	102	1	30
m,p-Xylene	136777-61-2	ND	0.500	5.00	5.03	101	72 - 128	5.00	4.99	100	1	30
Methyl iodide	74-88-4	ND	0.250	2.50	2.79	112	54 - 140	2.50	3.06	122	9	30
Methylene chloride	75-09-2	ND	0.500	2.50	2.45	98	66 - 130	2.50	2.54	102	4	30
Naphthalene	91-20-3	ND	0.250	2.50	2.66	106	54 - 132	2.50	2.81	112	5	35
n-Butylbenzene	104-51-8	ND	0.250	2.50	2.55	102	68 - 144	2.50	2.51	100	2	30
n-Propylbenzene	103-65-1	ND	0.250	2.50	2.39	96	73 - 137	2.50	2.41	96	1	30
o-Xylene	95-47-6	ND	0.250	2.50	2.50	100	69 - 133	2.50	2.51	100	0	30
sec-Butylbenzene	135-98-8	ND	0.250	2.50	2.38	95	72 - 141	2.50	2.39	96	0	30
Styrene	100-42-5	ND	0.250	2.50	2.57	103	72 - 128	2.50	2.57	103	0	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	0.250	2.50	2.59	104	69 - 126	2.50	2.76	110	6	30
tert-Butylbenzene	98-06-6	ND	0.250	2.50	2.59	104	72 - 136	2.50	2.60	104	0	30
Tetrachloroethene	127-18-4	ND	0.250	2.50	2.69	108	70 - 127	2.50	2.64	106	2	30
Toluene	108-88-3	ND	0.250	2.50	2.49	100	74 - 121	2.50	2.51	100	1	20
trans-1,2-Dichloroethene	156-60-5	ND	0.250	2.50	2.60	104	67 - 134	2.50	2.65	106	2	30
trans-1,3-Dichloropropene	10061-02-6	ND	0.250	2.50	2.39	96	72 - 126	2.50	2.41	96	1	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	0.250	2.50	2.41	96	44 - 146	2.50	2.61	104	8	30
Trichloroethene	79-01-6	ND	0.250	2.50	2.75	110	78 - 127	2.50	2.76	110	0	20
Trichlorofluoromethane	75-69-4	ND	0.250	2.50	2.71	108	64 - 141	2.50	2.83	113	4	30
Trichlorotrifluoroethane	76-13-1	ND	0.250	2.50	2.88	115	66 - 139	2.50	2.90	116	1	30
Vinyl chloride	75-01-4	ND	0.250	2.50	2.51	100	67 - 131	2.50	2.77	111	10	30
Xylene (total)	1330-20-7	ND	0.750	7.50	7.53	100	71 - 129	7.50	7.50	100	0	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	2.7	108	2.5	2.5	100	62 - 125	2.5	2.45	98	2	NA
4-Bromofluorobenzene	460-00-4	2.62	105	2.5	2.72	109	62 - 127	2.5	2.69	108	1	NA
Dibromofluoromethane	1868-53-7	2.65	106	2.5	2.56	102	65 - 130	2.5	2.59	104	1	NA
Toluene d8	2037-26-5	2.66	106	2.5	2.46	98	71 - 132	2.5	2.45	98	0	NA

Analytical Batch	Client ID	MB561577		LCS561577				LCSD561577				
561577	GCAL ID	1459957		1459958				1459959				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	06/24/2015 23:36		06/24/2015 21:26				06/24/2015 21:47				
	Matrix	Solid		Solid				Solid				
EPA 8260B		Units Result	mg/kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	0.250	2.50	2.45	98	77 - 122	2.50	2.28	91	7	30
1,1,1-Trichloroethane	71-55-6	ND	0.250	2.50	2.51	100	70 - 130	2.50	2.28	91	10	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.250	2.50	1.88	75	66 - 129	2.50	1.79	72	5	30
1,1,2-Trichloroethane	79-00-5	ND	0.250	2.50	2.26	90	74 - 120	2.50	2.16	86	5	30
1,1-Dichloroethane	75-34-3	ND	0.250	2.50	2.27	91	71 - 126	2.50	2.08	83	9	30
1,1-Dichloroethene	75-35-4	ND	0.250	2.50	2.63	105	68 - 129	2.50	2.42	97	8	20

GC/MS Volatiles QC Summary

Analytical Batch 561577	Client ID	MB561577	LCS561577	LCSD561577
	GCAL ID	1459957	1459958	1459959
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	06/24/2015 23:36	06/24/2015 21:26	06/24/2015 21:47
	Matrix	Solid	Solid	Solid

EPA 8260B		Units	mg/kg	Spike	Result	%R	Control	Spike	Result	%R	RPD	RPD
		Result	LOQ	Added			Limits%R	Added				Limit
1,1-Dichloropropene	563-58-6	ND	0.250	2.50	2.15	86	70 - 138	2.50	1.94	78	10	30
1,2,3-Trichloropropane	96-18-4	ND	0.250	2.50	1.86	74	63 - 132	2.50	1.78	71	4	30
1,2,4-Trichlorobenzene	120-82-1	ND	0.250	2.50	2.55	102	64 - 135	2.50	2.31	92	10	30
1,2,4-Trimethylbenzene	95-63-6	ND	0.250	2.50	2.33	93	75 - 130	2.50	2.09	84	11	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	0.250	2.50	2.20	88	60 - 123	2.50	2.15	86	2	30
1,2-Dibromoethane	106-93-4	ND	0.250	2.50	2.30	92	74 - 122	2.50	2.17	87	6	30
1,2-Dichlorobenzene	95-50-1	ND	0.250	2.50	2.49	100	76 - 125	2.50	2.26	90	10	30
1,2-Dichloroethane	107-06-2	ND	0.250	2.50	2.29	92	68 - 126	2.50	2.18	87	5	30
1,2-Dichloroethene(Total)	540-59-0	ND	0.500	5.00	4.81	96	72 - 129	5.00	4.46	89	8	30
1,2-Dichloropropane	78-87-5	ND	0.250	2.50	2.21	88	72 - 129	2.50	2.07	83	7	30
1,3,5-Trimethylbenzene	108-67-8	ND	0.250	2.50	2.54	102	74 - 136	2.50	2.27	91	11	30
1,3-Dichlorobenzene	541-73-1	ND	0.250	2.50	2.51	100	77 - 127	2.50	2.22	89	12	30
1,3-Dichloropropane	142-28-9	ND	0.250	2.50	2.27	91	77 - 121	2.50	2.11	84	7	30
1,4-Dichlorobenzene	106-46-7	ND	0.250	2.50	2.43	97	74 - 123	2.50	2.17	87	11	30
2,2-Dichloropropane	594-20-7	ND	0.250	2.50	2.58	103	74 - 129	2.50	2.31	92	11	30
2-Butanone	78-93-3	ND	0.250	2.50	1.82	73	47 - 142	2.50	1.79	72	2	30
2-Chlorotoluene	95-49-8	ND	0.250	2.50	2.29	92	75 - 132	2.50	2.04	82	12	30
2-Hexanone	591-78-6	ND	0.250	2.50	1.75	70	47 - 137	2.50	1.69	68	3	30
4-Chlorotoluene	106-43-4	ND	0.250	2.50	2.33	93	74 - 133	2.50	2.11	84	10	30
4-Isopropyltoluene	99-87-6	ND	0.250	2.50	2.49	100	71 - 136	2.50	2.16	86	14	30
4-Methyl-2-pentanone	108-10-1	ND	0.250	2.50	1.97	79	52 - 136	2.50	1.88	75	5	30
Acetone	67-64-1	ND	1.25	2.50	1.83	73	38 - 152	2.50	1.76	70	4	30
Benzene	71-43-2	ND	0.250	2.50	2.43	97	73 - 128	2.50	2.18	87	11	20
Bromobenzene	108-86-1	ND	0.250	2.50	2.02	81	73 - 124	2.50	1.87	75	8	30
Bromochloromethane	74-97-5	ND	0.250	2.50	2.65	106	73 - 127	2.50	2.47	99	7	30
Bromodichloromethane	75-27-4	ND	0.250	2.50	2.45	98	74 - 126	2.50	2.24	90	9	30
Bromoform	75-25-2	ND	0.250	2.50	2.53	101	67 - 122	2.50	2.38	95	6	30
Bromomethane	74-83-9	ND	0.250	2.50	2.85	114	48 - 139	2.50	2.90	116	2	30
Carbon disulfide	75-15-0	ND	0.250	2.50	2.55	102	68 - 133	2.50	2.35	94	8	30
Carbon tetrachloride	56-23-5	ND	0.250	2.50	2.64	106	71 - 133	2.50	2.37	95	11	30
Chlorobenzene	108-90-7	ND	0.250	2.50	2.44	98	75 - 121	2.50	2.23	89	9	20
Chloroethane	75-00-3	ND	0.250	2.50	2.37	95	57 - 144	2.50	2.33	93	2	30
Chloroform	67-66-3	ND	0.250	2.50	2.44	98	74 - 124	2.50	2.21	88	10	30
Chloromethane	74-87-3	ND	0.250	2.50	2.29	92	61 - 130	2.50	2.24	90	2	30
cis-1,2-Dichloroethene	156-59-2	ND	0.250	2.50	2.37	95	72 - 130	2.50	2.19	88	8	30
cis-1,3-Dichloropropene	10061-01-5	ND	0.250	2.50	2.25	90	72 - 129	2.50	2.08	83	8	30
Dibromochloromethane	124-48-1	ND	0.250	2.50	2.48	99	74 - 122	2.50	2.31	92	7	30
Dibromomethane	74-95-3	ND	0.250	2.50	2.38	95	72 - 125	2.50	2.24	90	6	30
Dichlorodifluoromethane	75-71-8	ND	0.250	2.50	2.48	99	59 - 138	2.50	2.36	94	5	30
Ethylbenzene	100-41-4	ND	0.250	2.50	2.55	102	74 - 130	2.50	2.26	90	12	30
Hexachlorobutadiene	87-68-3	ND	0.250	2.50	2.66	106	71 - 140	2.50	2.38	95	11	30
Isopropylbenzene (Cumene)	98-82-8	ND	0.250	2.50	2.46	98	74 - 125	2.50	2.16	86	13	30
m,p-Xylene	136777-61-2	ND	0.500	5.00	4.78	96	72 - 128	5.00	4.22	84	12	30
Methyl iodide	74-88-4	ND	0.250	2.50	2.96	118	54 - 140	2.50	2.87	115	3	30
Methylene chloride	75-09-2	ND	0.500	2.50	2.20	88	66 - 130	2.50	2.10	84	5	30
Naphthalene	91-20-3	ND	0.250	2.50	2.32	93	54 - 132	2.50	2.22	89	4	35
n-Butylbenzene	104-51-8	ND	0.250	2.50	2.51	100	68 - 144	2.50	2.20	88	13	30
n-Propylbenzene	103-65-1	ND	0.250	2.50	2.32	93	73 - 137	2.50	2.07	83	11	30
o-Xylene	95-47-6	ND	0.250	2.50	2.36	94	69 - 133	2.50	2.12	85	11	30
sec-Butylbenzene	135-98-8	ND	0.250	2.50	2.35	94	72 - 141	2.50	2.09	84	12	30
Styrene	100-42-5	ND	0.250	2.50	2.38	95	72 - 128	2.50	2.17	87	9	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	0.250	2.50	2.13	85	69 - 126	2.50	2.05	82	4	30
tert-Butylbenzene	98-06-6	ND	0.250	2.50	2.54	102	72 - 136	2.50	2.23	89	13	30
Tetrachloroethene	127-18-4	ND	0.250	2.50	2.66	106	70 - 127	2.50	2.36	94	12	30
Toluene	108-88-3	ND	0.250	2.50	2.32	93	74 - 121	2.50	2.10	84	10	20
trans-1,2-Dichloroethene	156-60-5	ND	0.250	2.50	2.44	98	67 - 134	2.50	2.27	91	7	30
trans-1,3-Dichloropropene	10061-02-6	ND	0.250	2.50	2.18	87	72 - 126	2.50	2.03	81	7	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	0.250	2.50	1.98	79	44 - 146	2.50	1.94	78	2	30

GC/MS Volatiles QC Summary

Analytical Batch	Client ID	MB561577	LCS561577	LCSD561577
561577	GCAL ID	1459957	1459958	1459959
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	06/24/2015 23:36	06/24/2015 21:26	06/24/2015 21:47
	Matrix	Solid	Solid	Solid

EPA 8260B		Units Result	mg/kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Trichloroethene	79-01-6	ND	0.250	2.50	2.63	105	78 - 127	2.50	2.37	95	10	20
Trichlorofluoromethane	75-69-4	ND	0.250	2.50	2.66	106	64 - 141	2.50	2.48	99	7	30
Trichlorotrifluoroethane	76-13-1	ND	0.250	2.50	2.86	114	66 - 139	2.50	2.57	103	11	30
Vinyl chloride	75-01-4	ND	0.250	2.50	2.39	96	67 - 131	2.50	2.35	94	2	30
Xylene (total)	1330-20-7	ND	0.750	7.50	7.14	95	71 - 129	7.50	6.34	85	12	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	2.43	97	2.5	2.38	95	62 - 125	2.5	2.44	98	2	NA
4-Bromofluorobenzene	460-00-4	2.62	105	2.5	2.72	109	62 - 127	2.5	2.74	110	1	NA
Dibromofluoromethane	1868-53-7	2.62	105	2.5	2.53	101	65 - 130	2.5	2.57	103	2	NA
Toluene d8	2037-26-5	2.64	106	2.5	2.48	99	71 - 132	2.5	2.51	100	1	NA

Analytical Batch	Client ID	MB561799	LCS561799	LCSD561799
561799	GCAL ID	1460951	1460952	1460953
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	06/27/2015 18:12	06/27/2015 16:50	06/27/2015 17:11
	Matrix	Solid	Solid	Solid

EPA 8260B		Units Result	mg/kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	0.00500	0.050	0.049	98	77 - 122	0.050	0.049	99	0	30
1,1,1-Trichloroethane	71-55-6	ND	0.00500	0.050	0.049	97	70 - 130	0.050	0.047	94	4	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	0.00500	0.050	0.048	97	66 - 129	0.050	0.049	98	2	30
1,1,2-Trichloroethane	79-00-5	ND	0.00500	0.050	0.050	100	74 - 120	0.050	0.050	101	0	30
1,1-Dichloroethane	75-34-3	ND	0.00500	0.050	0.049	97	71 - 126	0.050	0.048	97	2	30
1,1-Dichloroethene	75-35-4	ND	0.00500	0.050	0.050	100	68 - 129	0.050	0.047	94	6	20
1,1-Dichloropropene	563-58-6	ND	0.00500	0.050	0.053	107	70 - 138	0.050	0.051	102	4	30
1,2,3-Trichloropropane	96-18-4	ND	0.00500	0.050	0.052	103	63 - 132	0.050	0.052	104	0	30
1,2,4-Trichlorobenzene	120-82-1	ND	0.00500	0.050	0.055	111	64 - 135	0.050	0.055	110	0	30
1,2,4-Trimethylbenzene	95-63-6	ND	0.00500	0.050	0.054	108	75 - 130	0.050	0.054	108	0	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	0.00500	0.050	0.056	112	60 - 123	0.050	0.054	108	4	30
1,2-Dibromoethane	106-93-4	ND	0.00500	0.050	0.052	104	74 - 122	0.050	0.052	105	0	30
1,2-Dichlorobenzene	95-50-1	ND	0.00500	0.050	0.053	105	76 - 125	0.050	0.052	103	2	30
1,2-Dichloroethane	107-06-2	ND	0.00500	0.050	0.048	96	68 - 126	0.050	0.047	93	2	30
1,2-Dichloroethene(Total)	540-59-0	ND	0.010	0.100	0.102	102	72 - 129	0.100	0.099	99	3	30
1,2-Dichloropropane	78-87-5	ND	0.00500	0.050	0.049	99	72 - 129	0.050	0.049	98	0	30
1,3,5-Trimethylbenzene	108-67-8	ND	0.00500	0.050	0.053	106	74 - 136	0.050	0.053	105	0	30
1,3-Dichlorobenzene	541-73-1	ND	0.00500	0.050	0.051	102	77 - 127	0.050	0.052	104	2	30
1,3-Dichloropropane	142-28-9	ND	0.00500	0.050	0.050	101	77 - 121	0.050	0.051	101	2	30
1,4-Dichlorobenzene	106-46-7	ND	0.00500	0.050	0.050	101	74 - 123	0.050	0.050	101	0	30
2,2-Dichloropropane	594-20-7	ND	0.00500	0.050	0.049	97	74 - 129	0.050	0.047	93	4	30
2-Butanone	78-93-3	ND	0.00500	0.050	0.050	100	47 - 142	0.050	0.049	98	2	30
2-Chlorotoluene	95-49-8	ND	0.00500	0.050	0.052	104	75 - 132	0.050	0.051	103	2	30
2-Hexanone	591-78-6	ND	0.00500	0.050	0.051	101	47 - 137	0.050	0.052	103	2	30
4-Chlorotoluene	106-43-4	ND	0.00500	0.050	0.053	106	74 - 133	0.050	0.053	107	0	30
4-Isopropyltoluene	99-87-6	ND	0.00500	0.050	0.054	108	71 - 136	0.050	0.054	109	0	30
4-Methyl-2-pentanone	108-10-1	ND	0.00500	0.050	0.053	106	52 - 136	0.050	0.053	106	0	30
Acetone	67-64-1	ND	0.025	0.050	0.051	102	38 - 152	0.050	0.053	105	4	30
Benzene	71-43-2	ND	0.00500	0.050	0.051	102	73 - 128	0.050	0.050	101	2	20
Bromobenzene	108-86-1	ND	0.00500	0.050	0.050	100	73 - 124	0.050	0.049	99	2	30
Bromochloromethane	74-97-5	ND	0.00500	0.050	0.049	99	73 - 127	0.050	0.047	94	4	30
Bromodichloromethane	75-27-4	ND	0.00500	0.050	0.049	98	74 - 126	0.050	0.050	99	2	30
Bromoform	75-25-2	ND	0.00500	0.050	0.053	105	67 - 122	0.050	0.053	106	0	30
Bromomethane	74-83-9	ND	0.00500	0.050	0.058	117	48 - 139	0.050	0.056	111	4	30
Carbon disulfide	75-15-0	ND	0.00500	0.050	0.049	98	68 - 133	0.050	0.049	97	0	30
Carbon tetrachloride	56-23-5	ND	0.00500	0.050	0.051	102	71 - 133	0.050	0.048	97	6	30
Chlorobenzene	108-90-7	ND	0.00500	0.050	0.050	101	75 - 121	0.050	0.051	101	2	20
Chloroethane	75-00-3	ND	0.00500	0.050	0.051	101	57 - 144	0.050	0.051	103	0	30

GC/MS Volatiles QC Summary

Analytical Batch 561799	Client ID	MB561799		LCS561799				LCSD561799				
	GCAL ID	1460951		1460952				1460953				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	06/27/2015 18:12		06/27/2015 16:50				06/27/2015 17:11				
	Matrix	Solid		Solid				Solid				
EPA 8260B		Units Result	mg/kg LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
Chloroform	67-66-3	ND	0.00500	0.050	0.048	96	74 - 124	0.050	0.047	94	2	30
Chloromethane	74-87-3	ND	0.00500	0.050	0.052	103	61 - 130	0.050	0.052	104	0	30
cis-1,2-Dichloroethene	156-59-2	ND	0.00500	0.050	0.052	103	72 - 130	0.050	0.050	100	4	30
cis-1,3-Dichloropropene	10061-01-5	ND	0.00500	0.050	0.056	111	72 - 129	0.050	0.056	111	0	30
Dibromochloromethane	124-48-1	ND	0.00500	0.050	0.052	105	74 - 122	0.050	0.054	107	4	30
Dibromomethane	74-95-3	ND	0.00500	0.050	0.050	99	72 - 125	0.050	0.050	101	0	30
Dichlorodifluoromethane	75-71-8	ND	0.00500	0.050	0.048	97	59 - 138	0.050	0.048	96	0	30
Ethylbenzene	100-41-4	ND	0.00500	0.050	0.051	103	74 - 130	0.050	0.050	99	2	30
Hexachlorobutadiene	87-68-3	ND	0.00500	0.050	0.052	104	71 - 140	0.050	0.052	105	0	30
Isopropylbenzene (Cumene)	98-82-8	ND	0.00500	0.050	0.056	112	74 - 125	0.050	0.056	112	0	30
m,p-Xylene	136777-61-2	ND	0.010	0.100	0.106	106	72 - 128	0.100	0.105	105	1	30
Methyl iodide	74-88-4	ND	0.00500	0.050	0.053	105	54 - 140	0.050	0.053	106	0	30
Methylene chloride	75-09-2	ND	0.010	0.050	0.051	102	66 - 130	0.050	0.052	104	2	30
Naphthalene	91-20-3	ND	0.00500	0.050	0.060	120	54 - 132	0.050	0.059	117	2	35
n-Butylbenzene	104-51-8	ND	0.00500	0.050	0.052	104	68 - 144	0.050	0.053	106	2	30
n-Propylbenzene	103-65-1	ND	0.00500	0.050	0.051	101	73 - 137	0.050	0.050	100	2	30
o-Xylene	95-47-6	ND	0.00500	0.050	0.056	112	69 - 133	0.050	0.056	112	0	30
sec-Butylbenzene	135-98-8	ND	0.00500	0.050	0.052	105	72 - 141	0.050	0.053	105	2	30
Styrene	100-42-5	ND	0.00500	0.050	0.058	117	72 - 128	0.050	0.058	116	0	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	0.00500	0.050	0.055	109	69 - 126	0.050	0.055	110	0	30
tert-Butylbenzene	98-06-6	ND	0.00500	0.050	0.052	105	72 - 136	0.050	0.052	103	0	30
Tetrachloroethene	127-18-4	ND	0.00500	0.050	0.051	102	70 - 127	0.050	0.050	99	2	30
Toluene	108-88-3	ND	0.00500	0.050	0.049	98	74 - 121	0.050	0.048	96	2	20
trans-1,2-Dichloroethene	156-60-5	ND	0.00500	0.050	0.050	100	67 - 134	0.050	0.049	98	2	30
trans-1,3-Dichloropropene	10061-02-6	ND	0.00500	0.050	0.055	110	72 - 126	0.050	0.054	108	2	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	0.00500	0.050	0.052	104	44 - 146	0.050	0.048	96	8	30
Trichloroethene	79-01-6	ND	0.00500	0.050	0.051	103	78 - 127	0.050	0.050	99	2	20
Trichlorofluoromethane	75-69-4	ND	0.00500	0.050	0.049	99	64 - 141	0.050	0.047	95	4	30
Trichlorotrifluoroethane	76-13-1	ND	0.00500	0.050	0.051	101	66 - 139	0.050	0.047	95	8	30
Vinyl chloride	75-01-4	ND	0.00500	0.050	0.050	101	67 - 131	0.050	0.049	98	2	30
Xylene (total)	1330-20-7	ND	0.015	0.150	0.162	108	71 - 129	0.150	0.161	107	1	30
Surrogate												
1,2-Dichloroethane-d4	17060-07-0	.0473	95	.05	.0478	96	62 - 125	.05	.0487	97	2	NA
4-Bromofluorobenzene	460-00-4	.0493	99	.05	.0516	103	62 - 127	.05	.0517	103	0	NA
Dibromofluoromethane	1868-53-7	.0463	93	.05	.0483	97	65 - 130	.05	.0479	96	1	NA
Toluene d8	2037-26-5	.0531	106	.05	.0501	100	71 - 132	.05	.0503	101	0	NA

Analytical Batch 561397	Client ID	MB561397		LCS561397				LCSD561397				
	GCAL ID	1459187		1459188				1459189				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	06/23/2015 10:45		06/23/2015 09:21				06/23/2015 09:42				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	630-20-6	ND	5.00	50.0	48.2	96	75 - 124	50.0	47.0	94	3	30
1,1,1-Trichloroethane	71-55-6	ND	5.00	50.0	48.3	97	76 - 126	50.0	49.2	98	2	30
1,1,2,2-Tetrachloroethane	79-34-5	ND	5.00	50.0	43.1	86	70 - 122	50.0	44.6	89	3	30
1,1,2-Trichloroethane	79-00-5	ND	5.00	50.0	46.4	93	72 - 121	50.0	46.3	93	0	30
1,1-Dichloroethane	75-34-3	ND	5.00	50.0	46.8	94	74 - 127	50.0	46.3	93	1	30
1,1-Dichloroethene	75-35-4	ND	5.00	50.0	43.4	87	69 - 129	50.0	43.1	86	1	20
1,1-Dichloropropene	563-58-6	ND	5.00	50.0	51.8	104	72 - 131	50.0	52.0	104	0	30
1,2,3-Trichloropropane	96-18-4	ND	5.00	50.0	42.7	85	70 - 120	50.0	46.7	93	9	30
1,2,4-Trichlorobenzene	120-82-1	ND	5.00	50.0	52.7	105	61 - 135	50.0	54.0	108	2	30
1,2,4-Trimethylbenzene	95-63-6	ND	5.00	50.0	52.8	106	74 - 125	50.0	53.8	108	2	30
1,2-Dibromo-3-chloropropane	96-12-8	ND	5.00	50.0	41.8	84	57 - 121	50.0	44.9	90	7	30
1,2-Dibromoethane	106-93-4	ND	5.00	50.0	47.9	96	70 - 124	50.0	48.0	96	0	30

GC/MS Volatiles QC Summary

Analytical Batch 561397	Client ID	MB561397	LCS561397	LCSD561397
	GCAL ID	1459187	1459188	1459189
	Sample Type	MB	LCS	LCSD
	Prep Date	NA	NA	NA
	Analysis Date	06/23/2015 10:45	06/23/2015 09:21	06/23/2015 09:42
	Matrix	Water	Water	Water

EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,2-Dichlorobenzene	95-50-1	ND	5.00	50.0	48.5	97	71 - 126	50.0	50.0	100	3	30
1,2-Dichloroethane	107-06-2	ND	5.00	50.0	48.9	98	71 - 129	50.0	49.3	99	1	30
1,2-Dichloroethene(Total)	540-59-0	ND	10.0	100	95.3	95	74 - 128	100	96.6	97	1	30
1,2-Dichloropropane	78-87-5	ND	5.00	50.0	48.2	96	72 - 128	50.0	48.1	96	0	30
1,3,5-Trimethylbenzene	108-67-8	ND	5.00	50.0	52.6	105	71 - 132	50.0	53.1	106	1	30
1,3-Dichlorobenzene	541-73-1	ND	5.00	50.0	48.4	97	74 - 126	50.0	49.7	99	3	30
1,3-Dichloropropane	142-28-9	ND	5.00	50.0	47.5	95	74 - 122	50.0	47.3	95	0	30
1,4-Dichlorobenzene	106-46-7	ND	5.00	50.0	46.7	93	72 - 122	50.0	47.4	95	1	30
2,2-Dichloropropane	594-20-7	ND	5.00	50.0	49.2	98	77 - 124	50.0	49.1	98	0	30
2-Butanone	78-93-3	ND	5.00	50.0	42.2	84	58 - 137	50.0	43.6	87	3	30
2-Chlorotoluene	95-49-8	ND	5.00	50.0	48.7	97	72 - 127	50.0	50.2	100	3	30
2-Hexanone	591-78-6	ND	5.00	50.0	44.7	89	50 - 135	50.0	45.9	92	3	30
4-Chlorotoluene	106-43-4	ND	5.00	50.0	49.5	99	75 - 126	50.0	50.7	101	2	30
4-Isopropyltoluene	99-87-6	ND	5.00	50.0	54.1	108	71 - 129	50.0	54.7	109	1	30
4-Methyl-2-pentanone	108-10-1	ND	5.00	50.0	46.1	92	57 - 132	50.0	48.0	96	4	30
Acetone	67-64-1	ND	5.00	50.0	36.0	72	44 - 156	50.0	38.3	77	6	30
Benzene	71-43-2	ND	5.00	50.0	50.2	100	70 - 129	50.0	49.7	99	1	20
Bromobenzene	108-86-1	ND	5.00	50.0	46.9	94	71 - 120	50.0	47.7	95	2	30
Bromochloromethane	74-97-5	ND	5.00	50.0	54.6	109	76 - 130	50.0	51.3	103	6	30
Bromodichloromethane	75-27-4	ND	5.00	50.0	49.8	100	74 - 125	50.0	49.0	98	2	30
Bromoform	75-25-2	ND	5.00	50.0	48.2	96	64 - 122	50.0	49.0	98	2	30
Bromomethane	74-83-9	ND	5.00	50.0	49.7	99	47 - 138	50.0	48.5	97	2	30
Carbon disulfide	75-15-0	ND	5.00	50.0	48.0	96	69 - 136	50.0	47.2	94	2	30
Carbon tetrachloride	56-23-5	ND	5.00	50.0	49.3	99	76 - 128	50.0	48.0	96	3	30
Chlorobenzene	108-90-7	ND	5.00	50.0	47.8	96	74 - 123	50.0	47.5	95	1	20
Chloroethane	75-00-3	ND	5.00	50.0	51.6	103	62 - 141	50.0	49.2	98	5	30
Chloroform	67-66-3	ND	5.00	50.0	47.6	95	75 - 122	50.0	47.1	94	1	30
Chloromethane	74-87-3	ND	5.00	50.0	44.4	89	59 - 132	50.0	45.2	90	2	30
cis-1,2-Dichloroethene	156-59-2	ND	5.00	50.0	49.8	100	73 - 130	50.0	51.1	102	3	30
cis-1,3-Dichloropropene	10061-01-5	ND	5.00	50.0	52.8	106	71 - 132	50.0	52.3	105	1	30
Dibromochloromethane	124-48-1	ND	5.00	50.0	47.6	95	71 - 123	50.0	48.9	98	3	30
Dibromomethane	74-95-3	ND	5.00	50.0	49.5	99	72 - 129	50.0	48.6	97	2	30
Dichlorodifluoromethane	75-71-8	ND	5.00	50.0	54.3	109	58 - 140	50.0	52.2	104	4	30
Ethylbenzene	100-41-4	ND	5.00	50.0	51.1	102	74 - 126	50.0	50.0	100	2	30
Hexachlorobutadiene	87-68-3	ND	5.00	50.0	47.9	96	61 - 144	50.0	48.3	97	1	30
Isopropylbenzene (Cumene)	98-82-8	ND	5.00	50.0	54.1	108	71 - 125	50.0	54.0	108	0	30
m,p-Xylene	136777-61-2	ND	10.0	100	104	104	74 - 126	100	104	104	0	30
Methyl iodide	74-88-4	ND	5.00	50.0	42.4	85	57 - 141	50.0	46.8	94	10	30
Methylene chloride	75-09-2	ND	5.00	50.0	53.2	106	68 - 132	50.0	52.9	106	1	30
Naphthalene	91-20-3	ND	5.00	50.0	44.2	88	57 - 138	50.0	47.1	94	6	35
n-Butylbenzene	104-51-8	ND	5.00	50.0	52.0	104	69 - 134	50.0	52.0	104	0	30
n-Propylbenzene	103-65-1	ND	5.00	50.0	49.3	99	75 - 129	50.0	49.9	100	1	30
o-Xylene	95-47-6	ND	5.00	50.0	53.8	108	73 - 130	50.0	53.3	107	1	30
sec-Butylbenzene	135-98-8	ND	5.00	50.0	52.2	104	70 - 136	50.0	52.9	106	1	30
Styrene	100-42-5	ND	5.00	50.0	54.0	108	71 - 127	50.0	53.3	107	1	30
tert-Butyl methyl ether (MTBE)	1634-04-4	ND	5.00	50.0	49.9	100	71 - 125	50.0	50.9	102	2	30
tert-Butylbenzene	98-06-6	ND	5.00	50.0	52.7	105	72 - 126	50.0	53.8	108	2	30
Tetrachloroethene	127-18-4	ND	5.00	50.0	49.4	99	68 - 128	50.0	48.6	97	2	30
Toluene	108-88-3	ND	5.00	50.0	47.9	96	72 - 120	50.0	46.5	93	3	20
trans-1,2-Dichloroethene	156-60-5	ND	5.00	50.0	45.5	91	69 - 132	50.0	45.5	91	0	30
trans-1,3-Dichloropropene	10061-02-6	ND	5.00	50.0	51.3	103	71 - 131	50.0	49.7	99	3	30
trans-1,4-Dichloro-2-butene	110-57-6	ND	5.00	50.0	47.0	94	56 - 132	50.0	46.7	93	1	30
Trichloroethene	79-01-6	ND	5.00	50.0	48.4	97	76 - 129	50.0	48.4	97	0	20
Trichlorofluoromethane	75-69-4	ND	5.00	50.0	47.1	94	72 - 136	50.0	46.7	93	1	30
Trichlorotrifluoroethane	76-13-1	ND	5.00	50.0	48.0	96	72 - 136	50.0	45.4	91	6	30
Vinyl chloride	75-01-4	ND	5.00	50.0	44.4	89	68 - 132	50.0	43.1	86	3	30
Xylene (total)	1330-20-7	ND	15.0	150	158	105	74 - 127	150	157	105	1	30
Surrogate												

GC/MS Volatiles QC Summary

Analytical Batch 561397	Client ID	MB561397		LCS561397				LCSD561397				
	GCAL ID	1459187		1459188				1459189				
	Sample Type	MB		LCS				LCSD				
	Prep Date	NA		NA				NA				
	Analysis Date	06/23/2015 10:45		06/23/2015 09:21				06/23/2015 09:42				
	Matrix	Water		Water				Water				
EPA 8260B		Units Result	ug/L LOQ	Spike Added	Result	%R	Control Limits%R	Spike Added	Result	%R	RPD	RPD Limit
1,2-Dichloroethane-d4	17060-07-0	52	104	50	49.1	98	71 - 127	50	49.1	98	0	NA
4-Bromofluorobenzene	460-00-4	50.4	101	50	51	102	78 - 130	50	51.3	103	1	NA
Dibromofluoromethane	1868-53-7	51.8	104	50	49.9	100	77 - 127	50	50	100	0	NA
Toluene d8	2037-26-5	50.8	102	50	50.8	102	76 - 134	50	50.1	100	1	NA

GCAL ANALYTICAL LABORATORIES, LLC

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CHAIN OF CUSTODY RECORD

Client ID: 4912 - Clearwater Environmental Resources
SDG: 215062206
Due Date: 06/26/15

Report to:
Client: Clearwater Envl Resources
Address: 3870 Peachtree Industrial Blvd, Ste. 340139, Duluth, GA 30096
Contact: Jack Wintle
Phone: 678-491-4601
E-mail: jack.wintle@clearwaterenv.net

Bill to:
Client: SAME
Address:
Contact:
Phone:
E-mail:

P.O. Number
Project Name/Number: Rayloc
Sampled By: Matthew Howe

Analytical Requests & Method: EPA Method 8260B; VOA list MeOH

GCAL use only:
Custody Seal used ☑ yes ☐ no; intact ☑ yes ☐ no
Temperature °C 2.8 ETH

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	No Containers	Preservative
S	6/19/15	0852		X	SA-12e 15'	4	1
		0852			SA-12e 30'		2
		1005			SA-13e 15'		3
		1005			SA-13e 30'		4
		1110			~~SA-14e 15'~~ MRA SA-14e 20'		5
		1330			~~SA-14e 20'~~ MRA SA-15e 10'		6
		1330			SA-15e 30'		7
		1300			SA-17e 20'		8
		1300			SA-17e 30'		9
		1045			SA-18e 15'		10
		1045			SA-18e 30'		11

Air Bill No: 7738 7785 1548

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☒ Standard (Per Contract/Quote)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Matt Howe	6/19/15	3:02	Brad Tuchin	6/19/15	1302
Brad Tuchin	6/19/15	1430			
Fedex	6-20-15	1020	St Obj't	6-20-15	1020

Note: Page 1 of 2

By submitting these samples, you agree to GCAL's terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = solid, L = liquid, T = tissue

*Requires prior approval, rush charges may apply.

We cannot accept verbal changes. Please email written changes to your PM.

WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

GCAL ANALYTICAL LABORATORIES, LLC

CHAIN OF CUSTODY RECORD

7979 Innovation Park Dr., Baton Rouge, LA 70820-7402
Phone: 225.769.4900 • Fax: 225.767.5717 • www.gcal.com

Client ID: 4912 - Clearwater Environmental Resources
SDG: 215062206
Due Date: 06/26/15

Report to:
Client: Clearwater Env'l Resources
Address: 3870 Peachtree Industrial Blvd, Ste 340139, Duluth, GA 30096
Contact: Jack Wintle
Phone: 678-491-4601
E-mail: jack.wintle@clearwaterenv.net

Bill to:
Client: SAME
Address:
Contact:
Phone:
E-mail:

P.O. Number
Project Name/Number: Rayloc
Sampled By: Matthew Howe

Analytical Requests & Method

GCAL use only:
Custody Seal
used ☐ yes ☐ no
intact ☐ yes ☐ no
Temperature °C 2.8 E24

☐ Dissolved Analysis Requested
☐ Field filtered
☐ Lab filtered

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	No Containers	Na2S2O3 / NaOH	HCl	Preservative
S	6/19/15	0928		X	SA-19e 10'	4	X		12
↓	↓	0928		↓	SA-19e 30'	↓	↓		13
W	6/19/15	SAME			Trip Blank	3		X	14

EPA Method 8260B
EPA Method 8260B

Air Bill No: 7738 7755 1548

Turn Around Time (Business Days): ☐ 24h* ☐ 48h* ☐ 3 days* ☐ 1 week* ☐ Standard (Per Contract/Quote)

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
[signature]	6/19/15	3:02	[signature]	6/19/15	1502
[signature]	6/19/15	1430	[signature]		
Fedex	6-20-15	1020	[signature]	6-20-15	1020

Note: Page 2 of 2

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WHITE: CLIENT FINAL REPORT - CANARY: CLIENT

GCAL ANALYTICAL LABORATORIES, LLC

SAMPLE RECEIVING CHECKLIST

215062206

SAMPLE DELIVERY GROUP 215062206	
Client PM SAK 4912 - Clearwater Environmental Resources	**Transport Method** FEDEX
Profile Number 259985	**Received By** McCune, Dodie N.
Line Item(s) 1 - VOC 2 - Soils	**Receive Date(s)** 06/20/15

CHECKLIST	YES	NO	NA
Were all samples received using proper thermal preservation?	☑	☐	☐
When used, were all custody seals intact?	☑	☐	☐
Were all samples received in proper containers?	☑	☐	☐
Were all samples received using proper chemical preservation?	☐	☐	☑
Was preservative added to any container at the lab?	☐	☑	☐
Were all containers received in good condition?	☑	☐	☐
Were all VOA vials received with no head space?	☐	☐	☑
Do all sample labels match the Chain of Custody?	☑	☐	☐
Did the Chain of Custody list the sampling technician?	☑	☐	☐
Was the COC maintained i.e. all signatures, dates and time of receipt included?	☐	☑	☐

COOLERS

Airbill	Thermometer ID: E24	Temp(°C)
773877851548		2.8

DISCREPANCIES

None

LAB PRESERVATIONS

None

NOTES

Revision 1.4